BUSSMANN SERIES

Leadership in fusible circuit protection



We make what matters work.





 \star At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

To learn more go to: Eaton.com/whatmatters



We make what matters work.

Eaton is the leading source of fusible circuit protection solutions in the global marketplace. Eaton's Bussmann series products are approved for use around the world and meet agency requirements and international standards: IEC, VDE, DIN,UL, CSA, BS and others.

The headquarters for Eaton's Bussmann series product line is located in Burton-on-the-Wolds, Leicestershire (UK) and is part of Eaton's Industrial Control and Protection EMEA division.

Eaton manufactures over 50,000 Bussmann series part numbers, covering extensive fusible circuit protection solutions for a wide range of applications: residential, industrial, motor protection, power conversion and distribution.

Eaton has been a leading exponent in the design, development and manufacture of fuse links and their associated accessories for more than 100 years and has supplied fuse links to more than 90 countries worldwide.

Eaton's team of specialist Engineers and Field Applications Engineers plays a leading role in international standardisation of fuse links offering comprehensive advice on selection and applications.

With a continual commitment to meet our customers' needs with innovative high quality ~products with ISO 9001 'approval systems', Eaton is the supplier of choice for circuit protection solutions.

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FWA - 130 V a.c. / V d.c.(UL), 1000 A to 4000 A

Specifications

Description

North American style flush end high speed fuse links for the protection of DC common bus, DC drives, power converters/ rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage: 130 V a.c. / V d.c. (UL)
- Rated current: 1000 A to 4000 A
- Breaking capacity:
 - 200 kA RMS Sym at 130 V a.c.
 - 50 kA at 130 V d.c.

Standards / Agency information

CE, UL Recognised JFHR2.E91958 on 1000 A to 2000 A fuse links

Catalogue numbers

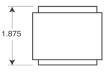
| Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 130 V a.c. | Watts loss (W) | Catalogue numbers |
|--------------------------|-------------------------|------------|---------------------------|-------------------|----------------------|
| 130 V a.c. / V d.c. (UL) | 1000 | 170,000 | 460,000 | 60 | FWA-1000AH |
| 130 V a.c. / V d.c. (UL) | 1200 | 270,000 | 730,000 | 70 | FWA-1200AH |
| 130 V a.c. / V d.c. (UL) | 1500 | 520,000 | 1,400,000 | 78 | FWA-1500AH |
| 130 V a.c. / V d.c. (UL) | 2000 | 860,000 | 2,400,000 | 108 | FWA-2000AH |
| 130 V a.c. / V d.c. (UL) | 2500 | 1,500,000 | 4,100,000 | 130 | FWA-2500AH |
| 130 V a.c. / V d.c. (UL) | 3000 | 2,100,000 | 5,700,000 | 150 | FWA-3000AH |
| 130 V a.c. / V d.c. (UL) | 4000 | 3,400,000 | 9,200,000 | 257 | FWA-4000AH |
| | | | | | |

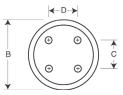
Dimensions (in) - 1000 A to 3000 A

Dimensions (in) - 4000 A







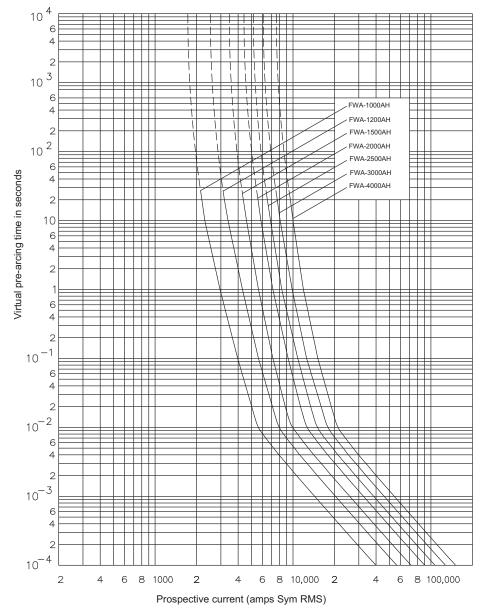


| Rated current (Amps) | В | C | D | Thread depth |
|----------------------|-----|-----|-----|---------------------------|
| 1000 to 2000 | 2 | 1 | - | Tapped 3/8"-24 x 1/2" UNF |
| 2500 to 3000 | 3 | 1.5 | - | Tapped 1/2"-20 x 1/2" UNF |
| 4000 | 3.5 | 1.5 | 1.5 | Tapped 1/2"-20 x 1/2" UNF |

1" = 25.4mm



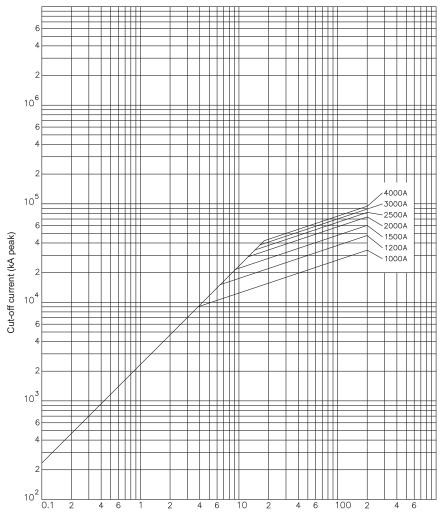
FWA - 130 V a.c. / V d.c.(UL), 1000 A to 4000 A



Time-current curve - 1000 A to 4000 A

FWA - 130 V a.c. / V d.c.(UL), 1000 A to 4000 A

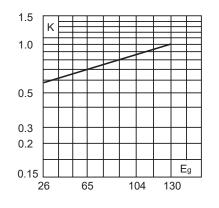
Cut-off curve - 1000 A to 4000 A



Prospective current (Sym RMS kA)

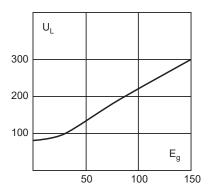
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



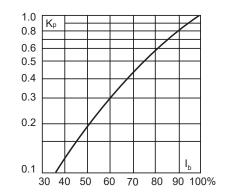
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



Data sheets: 720001, 5785301

FWA - 150 V a.c. / V d.c. (UL), 70 A to 1000 A

Specifications

Description

North American style bolted tag high speed fuse links used for the protection of DC common bus, DC drives, power converters/ rectifiers and reduced rated voltage starters.

Technical Data

- Rated voltage:
 - 150 V a.c. / V d.c. (UL)
 - 80 V d.c.
- Rated current: 70 A to 1000 A
- Breaking capacity:
 - $\,$ $\,$ 100 kA RMS Sym. (70 A to 400 A) at 150 V a.c.
 - 200 kA RMS Sym. (500 A to 1000 A) at 150 V a.c.
 - 20 kA at 150 V a.c. / V d.c. (70 A to 800 A)
- 100 kA at 80 V d.c. (70 A to 1000 A)

Standards / Agency information

CE, UL Recognised JFHR2.E91958

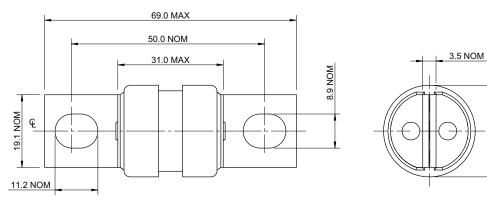
Catalogue numbers



| | | l²t (A² Sec) | | | | |
|--------------------------------------|-------------------------|--------------------------------------|---------|-------------------|----------------------|--|
| Rated voltage / Breaking capacity | Rated current (Amps) | Clearing Pre-arcing at 150 V a.c. | | Watts loss (W) | Catalogue numbers | |
| | 70 | 470 | 4000 | 6.9 | FWA-70B | |
| | 80 | 670 | 6000 | 7.7 | FWA-80B | |
| | 100 | 1200 | 12,000 | 9 | FWA-100B | |
| 150 V a.c./ 100 kA | 125 | 1870 | 18,000 | 11.2 | FWA-125B | |
| 80 V d.c. / 100 kA | 150 | 2700 | 26,000 | 13.5 | FWA-150B | |
| | 200 | 4780 | 45,000 | 17.6 | FWA-200B | |
| 150 V d.c./ 20 kA | 250 | 7470 | 70,000 | 22.5 | FWA-250B | |
| | 300 | 10,760 | 100,000 | 27 | FWA-300B | |
| | 350 | 15,700 | 140,000 | 30.6 | FWA-350B | |
| | 400 | 20,300 | 180,000 | 35.2 | FWA-400B | |
| 150 V a.c. / 200 kA | 500 | 39,000 | 120,000 | 35 | FWA-500A | |
| | 600 | 46,000 | 140,000 | 47 | FWA-600A | |
| 80 V d.c. / 100 kA | 700 | 75,000 | 220,000 | 49 | FWA-700A | |
| 150 V d.c. / 20 kA | 800 | 92,000 | 280,000 | 58 | FWA-800A | |
| 150 V a.c. / 200 kA | 1000 | 170,000 | 510,000 | 60 | FWA-1000A | |
| 80 V d.c. / 100 kA | | | | | | |

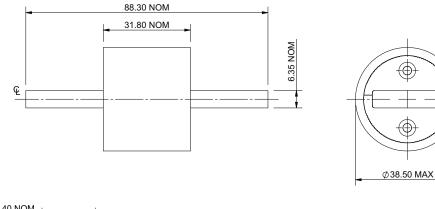
FWA - 150 V a.c. / V d.c. (UL), 70 A to 1000 A

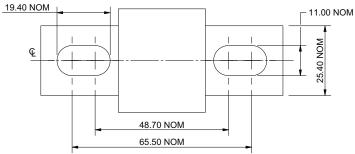
Dimensions (mm) - 70 A to 400 A



Ø24.5 MAX

Dimensions (mm) - 500 A to 1000 A

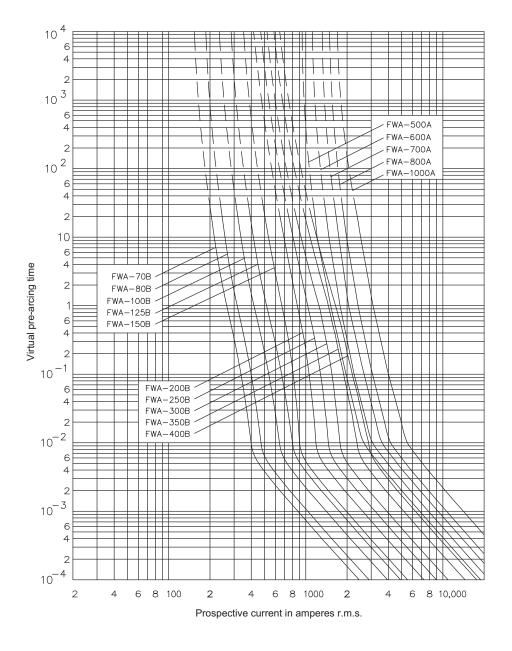




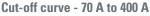
Data sheets: 720002, 5785310

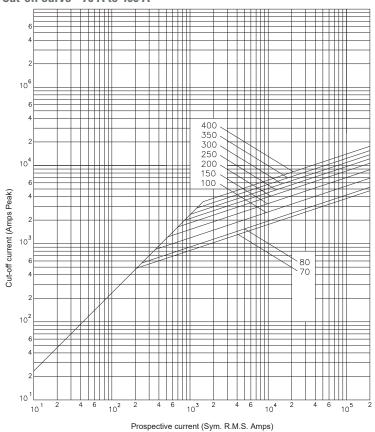
FWA - 150 V a.c. / V d.c. (UL), 70 A to 1000 A

Time-current curve - 70 A to 1000 A

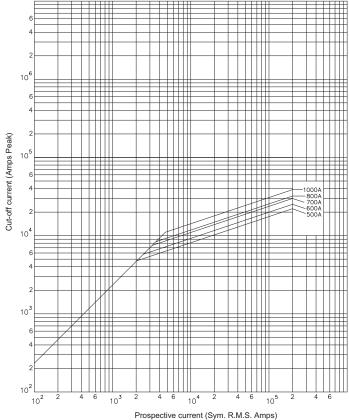


FWA - 150 V a.c. / V d.c. (UL), 70 A to 1000 A



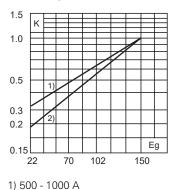






Total clearing l²t

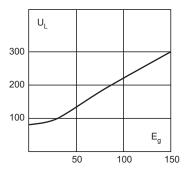
The total clearing l²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



2) 70 - 400 A

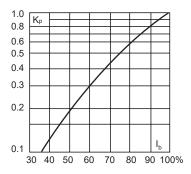
Arc voltage

This curve gives the peak arc voltage, $\rm U_L$, which may appear across the fuse during its operation as a function of the applied working voltage, $\rm E_g$, (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $l_{\rm h}$, in percent of the rated current.



Data sheets: 720002, 5785310

FWX - 250 V a.c. / V d.c. (UL), 35 A to 2500 A

Specifications

Description

North American style bolted tags and flush end high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical Data

- Rated voltage: 250 V a.c. / V d.c. (UL)
- Rated current: 35 A to 2500 A
- Breaking capacity:
- 200 kA RMS Sym.at 250 V a.c.
- 50 kA at 250 V d.c. (35 A to 800 A)

Standards / Agency information

CE, UL Recognised file JFHR2.E56412 and CSA component acceptance on 35 A to $\,$ 800 A fuse links (50 kA IR at 250 V d.c.) $\,$

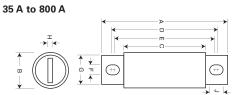
Catalogue numbers

| | Rated | I²t (A² Sec) | | _ | | |
|------------------------|-------------------|--------------|---------------------------|-------------------|----------------------|--|
| Rated voltage | current (Amps) | Pre-arcing | Clearing at 250 V a.c. | Watts loss (W) | Catalogue numbers | |
| 250 V a.c./ V d.c.(UL) | 35 | 50 | 230 | 4.2 | FWX-35A | |
| 250 V a.c./ V d.c.(UL) | 40 | 60 | 310 | 5.2 | FWX-40A | |
| 250 V a.c./ V d.c.(UL) | 45 | 80 | 390 | 5.7 | FWX-45A | |
| 250 V a.c./ V d.c.(UL) | 50 | 100 | 520 | 6 | FWX-50A | |
| 250 V a.c./ V d.c.(UL) | 60 | 140 | 740 | 8.1 | FWX-60A | |
| 250 V a.c./ V d.c.(UL) | 70 | 330 | 1400 | 7.2 | FWX-70A | |
| 250 V a.c./ V d.c.(UL) | 80 | 430 | 1850 | 8.1 | FWX-80A | |
| 250 V a.c./ V d.c.(UL) | 90 | 570 | 2450 | 9 | FWX-90A | |
| 250 V a.c./ V d.c.(UL) | 100 | 740 | 3150 | 10 | FWX-100A | |
| 250 V a.c./ V d.c.(UL) | 125 | 1130 | 4850 | 12.5 | FWX-125A | |
| 250 V a.c./ V d.c.(UL) | 150 | 1620 | 6950 | 15.7 | FWX-150A | |
| 250 V a.c./ V d.c.(UL) | 175 | 2170 | 9300 | 18.5 | FWX-175A | |
| 250 V a.c./ V d.c.(UL) | 200 | 2790 | 12,000 | 22 | FWX-200A | |
| 250 V a.c./ V d.c.(UL) | 225 | 3210 | 14,700 | 24 | FWX-225A | |
| 250 V a.c./ V d.c.(UL) | 250 | 3960 | 18,100 | 27 | FWX-250A | |
| 250 V a.c./ V d.c.(UL) | 275 | 4720 | 21,600 | 31 | FWX-275A | |
| 250 V a.c./ V d.c.(UL) | 300 | 6000 | 27,300 | 32 | FWX-300A | |
| 250 V a.c./ V d.c.(UL) | 350 | 10,600 | 48,600 | 39 | FWX-350A | |
| 250 V a.c./ V d.c.(UL) | 400 | 14,500 | 66,100 | 44 | FWX-400A | |
| 250 V a.c./ V d.c.(UL) | 450 | 22,100 | 101,000 | 49 | FWX-450A | |
| 250 V a.c./ V d.c.(UL) | 500 | 28,000 | 128,000 | 54 | FWX-500A | |
| 250 V a.c./ V d.c.(UL) | 600 | 41,100 | 188,000 | 62 | FWX-600A | |
| 250 V a.c./ V d.c.(UL) | 700 | 48,800 | 190,000 | 72 | FWX-700A | |
| 250 V a.c./ V d.c.(UL) | 800 | 59,000 | 230,000 | 84 | FWX-800A | |
| 250 V a.c./ V d.c.(UL) | 1000 | 44,000 | 360,000 | 100 | FWX-1000AH | |
| 250 V a.c./ V d.c.(UL) | 1200 | 92,000 | 750,000 | 103 | FWX-1200AH | |
| 250 V a.c./ V d.c.(UL) | 1500 | 120,000 | 880,000 | 140 | FWX-1500AH | |
| 250 V a.c./ V d.c.(UL) | 1600 | 160,000 | 1,200,000 | 140 | FWX-1600AH | |
| 250 V a.c./ V d.c.(UL) | 2000 | 320,000 | 2,300,000 | 151 | FWX-2000AH | |
| 250 V a.c./ V d.c.(UL) | 2500 | 670,000 | 4,700,000 | 163 | FWX-2500AH | |



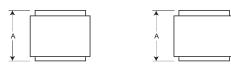
FWX - 250 V a.c. / V d.c. (UL), 35 A to 2500 A

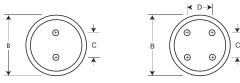
Dimensions (in)



1000 A to 1200 A

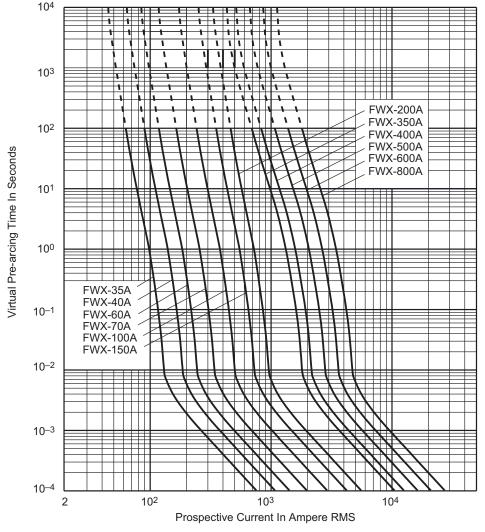
1500 A to 2500 A





| Amp range | A | В | C | D | E | F | G | Н | J | Tapped thread depth |
|--------------|------|------|------|------|------|------|------|------|------|---------------------------|
| 35-60 | 3.19 | 0.81 | 1.59 | 2.59 | 2.25 | 0.34 | 0.63 | 0.13 | 0.52 | - |
| 70-200 | 3.13 | 1.22 | 1.59 | 2.44 | 2.19 | 0.34 | 1 | 0.19 | 0.47 | - |
| 225-600 | 3.84 | 1.5 | 1.59 | 2.94 | 2.25 | 0.41 | 1 | 0.25 | 0.75 | - |
| 700-800 | 3.84 | 2 | 1.59 | 3.03 | 2.28 | 0.41 | 1.5 | 0.25 | 0.78 | - |
| 1000-1200 | 2.59 | 3 | 1.5 | - | - | - | - | - | - | 3/8″-24 x |
| 1500-2500 | 2.59 | 3.5 | 1.5 | 1.5 | - | - | - | - | - | 1/2" UNF |
| 1" = 25.4mm | | | | | | | | | | |

Time-current curve - 35 A to 800 A

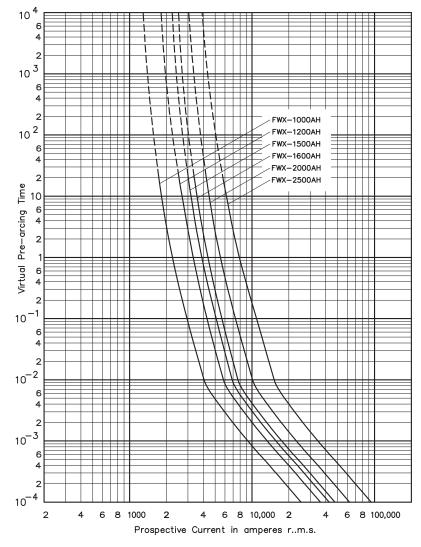


Contact FUSETECH@eaton.com for the time current curves for the following ratings: 45, 50, 80, 90, 125, 175, 225, 250, 275, 300, 450 and 700 A

Data sheets: 720005, 359 (35-800 A), 5785299 (100-2500 A)

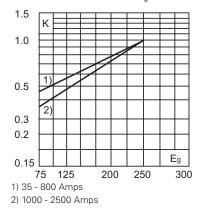
FWX - 250 V a.c. / V d.c. (UL), 35 A to 2500 A

Time-current curve - 1000 A to 2500 A



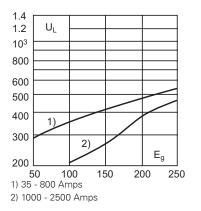
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



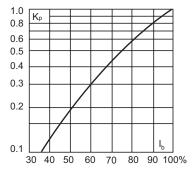
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 720005, 359 (35-800 A), 5785299 (100-2500 A)

CHSF - 500 V a.c. / V d.c. (UL), 50 A to 400 A

Specifications

Description

Eaton's Bussmann series compact high speed fuses feature space-saving case sizes for protecting semiconductor devices up to 500 V a.c./V d.c. in ratings from 50 to 400 Amps

Technical Data

- Rated voltage: 500 V a.c. / V d.c. (UL)
- Rated current: 50 A to 400 A
- Breaking capacity:
 - Maximum AC: 200 kA / Minimum AC 400%
 - Maximum DC: 50 kA / Minimum DC 800%
- · Conforms to IEC aR specifications for short-circuit protection

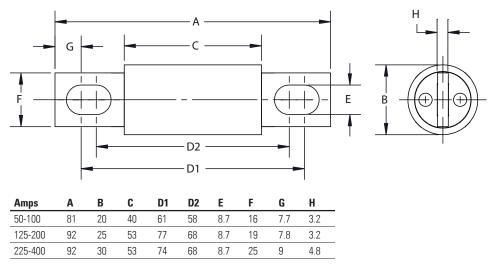
Standards / Agency information

UL Recognised, File E56412, guide JFHR2, CSA Component Acceptance, Class 1422-30, File 53787, IEC aR (self-certified), CE, RoHS compliant, REACH declaration available upon request

Catalogue numbers

| | Rated | l²t (A² Sec) | | | | |
|------------------------|-------------------|---------------------|-------------------------------------|------------------------------------|--------------------------|----------------------|
| Rated voltage | current (Amps) | AC/DC Pre-arcing | AC clearing at 200 kA/500 V a.c. | DC clearing at 50 kA/500 V d.c. | Watts loss (W) at 80% | Catalogue numbers |
| 500 V a.c./ V d.c.(UL) | 50 | 304 | 1875 | 935 | 3.8 | CHSF-50 |
| 500 V a.c./ V d.c.(UL) | 60 | 438 | 2700 | 1346 | 4.5 | CHSF-60 |
| 500 V a.c./ V d.c.(UL) | 70 | 596 | 3675 | 1833 | 5.3 | CHSF-70 |
| 500 V a.c./ V d.c.(UL) | 80 | 778 | 4800 | 2394 | 6.1 | CHSF-80 |
| 500 V a.c./ V d.c.(UL) | 100 | 1216 | 7500 | 3740 | 7.6 | CHSF-100 |
| 500 V a.c./ V d.c.(UL) | 125 | 2042 | 12721 | 6465 | 12 | CHSF-125 |
| 500 V a.c./ V d.c.(UL) | 150 | 2941 | 18318 | 9309 | 14.3 | CHSF-150 |
| 500 V a.c./ V d.c.(UL) | 175 | 4003 | 24933 | 12671 | 16.7 | CHSF-175 |
| 500 V a.c./ V d.c.(UL) | 200 | 5228 | 32566 | 16550 | 19.1 | CHSF-200 |
| 500 V a.c./ V d.c.(UL) | 225 | 6835 | 48028 | 21278 | 26.1 | CHSF-225 |
| 500 V a.c./ V d.c.(UL) | 250 | 8438 | 59293 | 26270 | 29 | CHSF-250 |
| 500 V a.c./ V d.c.(UL) | 300 | 12151 | 85382 | 37828 | 34.8 | CHSF-300 |
| 500 V a.c./ V d.c.(UL) | 350 | 16539 | 116215 | 51488 | 40.6 | CHSF-350 |
| 500 V a.c./ V d.c.(UL) | 400 | 21603 | 151791 | 67250 | 46.4 | CHSF-400 |

Dimensions (mm) - 50 A to 400 A

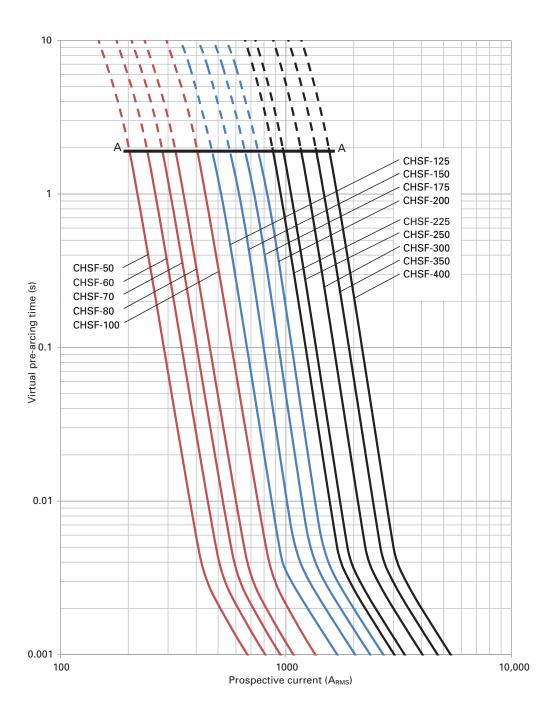


Data sheet: 10414



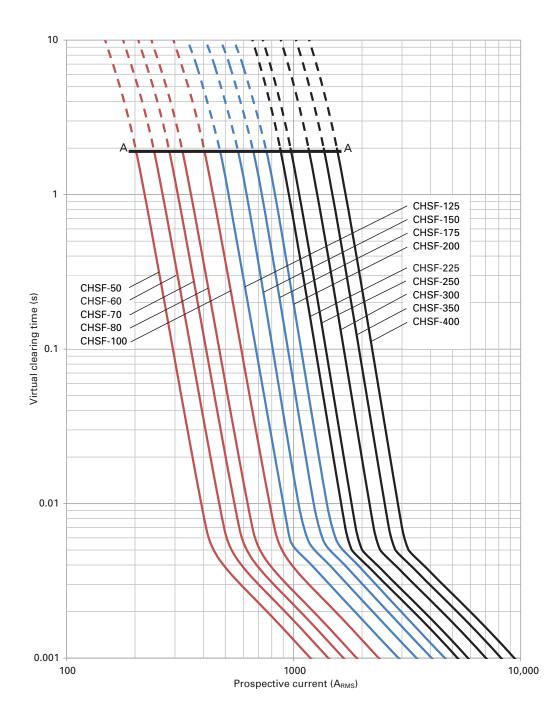
CHSF - 500 V a.c. / V d.c. (UL), 50 A to 400 A

AC Minimum melt curve - 50 A to 400 A



CHSF - 500 V a.c. / V d.c. (UL), 50 A to 400 A

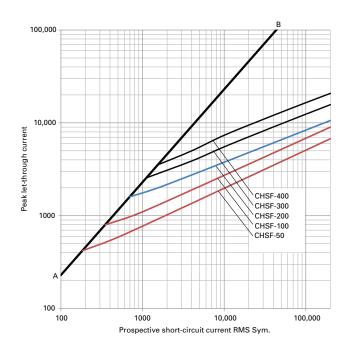
AC Time-current curve- 50 A to 400 A



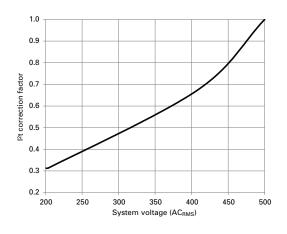
Data sheet: 10414

CHSF - 500 V a.c. / V d.c. (UL), 50 A to 400 A

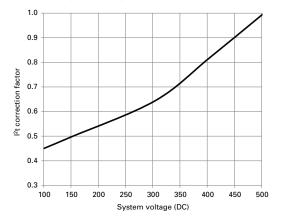
AC Cut-off curve - 50 A to 400 A



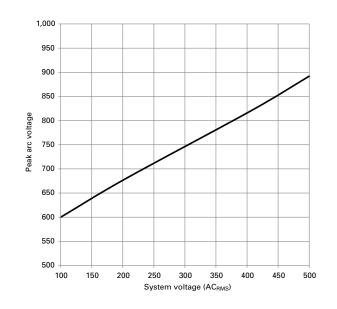
AC clearing l²t voltage correction factor



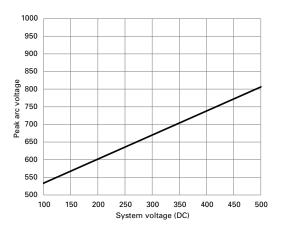
DC clearing I²t voltage correction factor



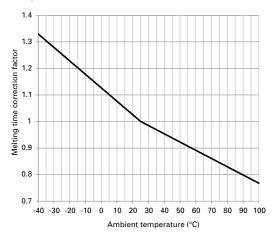
AC Arc Voltage



DC Arc voltage



Temperature derating



FWH - 500 V a.c. / V d.c. (UL), 35 A to 1600 A

Specifications

Description

North American style bolted tags high speed fuse links, for the protection of DC common bus, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 500 V a.c. (UL)
- 500 V d.c. (35 A to 800 A only)
- Rated current: 35 A to 1600 A
- Breaking capacity:
 - 200 kA RMS Sym.
- 50 kA at 500 V d.c.

Standards / Agency information

CE, UL Recognition JFHR2.E91958 FWH-_B (35 A to 200 A), JFHR2.E56412 FWH-_A (225 A to 800 A), CSA Component Acceptance Class 1422-30, File 53787 (35 A to 1600 A)

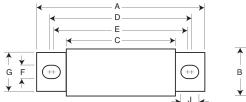
Catalogue numbers

| | Rated | I²t (A² Sec) | | | |
|------------------------|-------------------|--------------|---------------------------|-------------------|----------------------|
| Rated voltage | current (Amps) | Pre-arcing | Clearing at 500 V a.c. | Watts loss (W) | Catalogue numbers |
| 500 V a.c./V d.c. (UL) | 35 | 34 | 150 | 8 | FWH-35B |
| 500 V a.c./V d.c. (UL) | 40 | 76 | 320 | 7.5 | FWH-40B |
| 500 V a.c./V d.c. (UL) | 45 | 105 | 450 | 7.5 | FWH-45B |
| 500 V a.c./V d.c. (UL) | 50 | 135 | 670 | 7.5 | FWH-50B |
| 500 V a.c./V d.c. (UL) | 60 | 210 | 900 | 9.9 | FWH-60B |
| 500 V a.c./V d.c. (UL) | 70 | 210 | 900 | 10.6 | FWH-70B |
| 500 V a.c./V d.c. (UL) | 80 | 305 | 1400 | 12.7 | FWH-80B |
| 500 V a.c./V d.c. (UL) | 90 | 360 | 1600 | 15 | FWH-90B |
| 500 V a.c./V d.c. (UL) | 100 | 475 | 2000 | 17 | FWH-100B |
| 500 V a.c./V d.c. (UL) | 125 | 800 | 3500 | 25 | FWH-125B |
| 500 V a.c./V d.c. (UL) | 150 | 1100 | 4600 | 30 | FWH-150B |
| 500 V a.c./V d.c. (UL) | 175 | 1450 | 6200 | 35 | FWH-175B |
| 500 V a.c./V d.c. (UL) | 200 | 1900 | 8500 | 40 | FWH-200B |
| 500 V a.c./V d.c. (UL) | 225 | 4600 | 23,300 | 39 | FWH-225A |
| 500 V a.c./V d.c. (UL) | 250 | 6300 | 32,200 | 41 | FWH-250A |
| 500 V a.c./V d.c. (UL) | 275 | 7900 | 40,300 | 46 | FWH-275A |
| 500 V a.c./V d.c. (UL) | 300 | 9800 | 49,800 | 51 | FWH-300A |
| 500 V a.c./V d.c. (UL) | 325 | 13,700 | 63,800 | 53 | FWH-325A |
| 500 V a.c./V d.c. (UL) | 350 | 14,500 | 72,900 | 58 | FWH-350A |
| 500 V a.c./V d.c. (UL) | 400 | 19,200 | 96,700 | 65 | FWH-400A |
| 500 V a.c./V d.c. (UL) | 450 | 24,700 | 127,000 | 74 | FWH-450A |
| 500 V a.c./V d.c. (UL) | 500 | 29,200 | 149,000 | 84 | FWH-500A |
| 500 V a.c./V d.c. (UL) | 600 | 41,300 | 206,000 | 108 | FWH-600A |
| 500 V a.c./V d.c. (UL) | 700 | 55,000 | 298,000 | 120 | FWH-700A |
| 500 V a.c./V d.c. (UL) | 800 | 76,200 | 409,000 | 129 | FWH-800A |
| 500 V a.c./V d.c. (UL) | 900 | 74,000 | 363,000 | 132 | FWH-900A |
| 500 V a.c. (UL) | 1000 | 92,000 | 530,000 | 145 | FWH-1000B |
| 500 V a.c. (UL) | 1200 | 122,000 | 700,000 | 180 | FWH-1200B |
| 500 V a.c. (UL) | 1400 | 200,000 | 1,000,000 | 210 | FWH-1400A |
| 500 V a.c. (UL) | 1600 | 290,000 | 1,400,000 | 230 | FWH-1600A |



FWH - 500 V a.c. / V d.c. (UL), 35 A to 1600 A

Dimensions (in) - 35 A to 1200 A

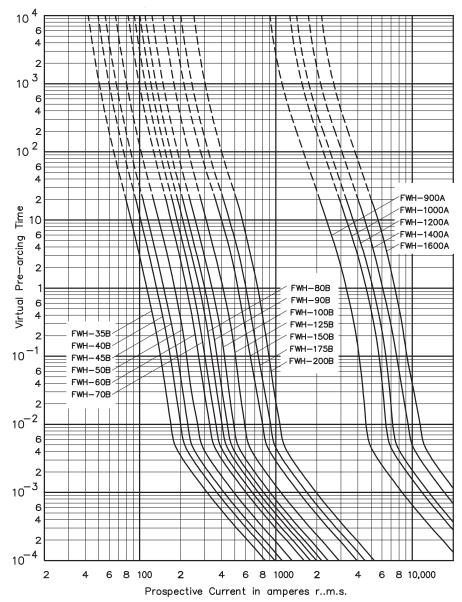




| Amp range | Α | В | C | D | Е | F | G | Н | J |
|-------------|------|------|------|------|------|------|------|------|------|
| 35-60 | 3.19 | 0.81 | 1.59 | 2.54 | 2.19 | 0.34 | 0.72 | 0.13 | 0.52 |
| 70-100 | 3.62 | 0.95 | 1.74 | 2.85 | 2.81 | 0.35 | 0.75 | 0.13 | 0.38 |
| 125-200 | 3.62 | 1.16 | 1.84 | 2.89 | 2.77 | 0.34 | 1 | 0.19 | 0.41 |
| 225-400 | 4.34 | 1.5 | 2.09 | 3.44 | 2.75 | 0.41 | 1 | 0.25 | 0.75 |
| 450-600 | 4.34 | 2 | 2.09 | 3.53 | 2.78 | 0.41 | 1.5 | 0.25 | 0.78 |
| 700-800 | 6.34 | 2.5 | 2.09 | 4.97 | 3.44 | 0.53 | 2 | 0.38 | 1.30 |
| 1000-1200 | 6.97 | 3 | 3.22 | 5.47 | 4.48 | 0.62 | 2.38 | 0.44 | 1.12 |
| 1″ – 25 /mm | | | | | | | | | |

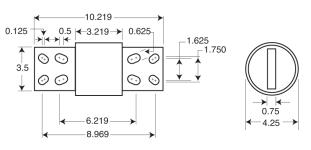
1" = 25.4mm

Time-current curve - 35 A to 200 A and 900 A to 1600 A



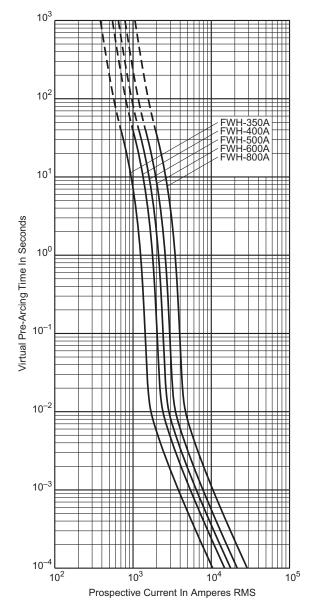
Data sheets: 720007, 360 (350-800 A), 5785304 (35-200 A, 1000-1600 A)

Dimensions (in) - 1400 A and 1600 A



FWH - 500 V a.c. / V d.c. (UL), 35 A to 1600 A

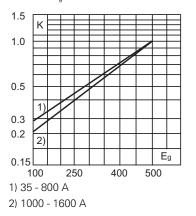
Time-current curve - 350 A to 800 A



Contact FUSETECH@eaton.com for the time current curves for the following ratings: 225 to 325 A, 450 A and 700 A

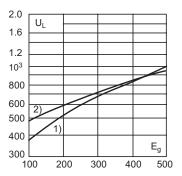
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



Arc voltage

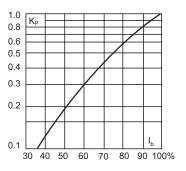
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



1) 35 - 200 A and 1000 - 1600 A 2) 225 - 800 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $l_{\rm b}$, in percent of the rated current.



Data sheets: 720007, 360 (350-800 A), 5785304 (35-200 A, 1000-1600 A)

KAC - 600 V a.c. (UL), 1 A to 1000 A

Specifications

Description

North American style bolted tags high speed fuse links. These fuse links are supplied as replacements only. For new installations, Eaton recommends the 700 V FWP fuse links.

Technical Data

- Rated voltage: 600 V a.c. (UL)
- Rated curent: 1 A to 1000 A
- Breaking capacity: 200 kA RMS Sym.

Standards / Agency information

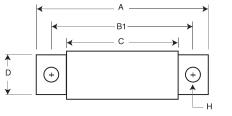
CE, UL file JFHR2.E56413 (1 A to 600 A only)

Catalogue numbers

| Rated voltage | Rated current (Amps) | Catalogue numbers |
|-----------------|-------------------------|----------------------|
| 600 V a.c. (UL) | 1 | KAC-1 |
| 600 V a.c. (UL) | 2 | KAC-2 |
| 600 V a.c. (UL) | 3 | KAC-3 |
| 600 V a.c. (UL) | 4 | KAC-4 |
| 600 V a.c. (UL) | 5 | KAC-5 |
| 600 V a.c. (UL) | 6 | KAC-6 |
| 600 V a.c. (UL) | 7 | KAC-7 |
| 600 V a.c. (UL) | 8 | KAC-8 |
| 600 V a.c. (UL) | 9 | KAC-9 |
| 600 V a.c. (UL) | 10 | KAC-10 |
| 600 V a.c. (UL) | 12 | KAC-12 |
| 600 V a.c. (UL) | 15 | KAC-15 |
| 600 V a.c. (UL) | 17.5 | KAC-17.5 |
| 600 V a.c. (UL) | 20 | KAC-20 |
| 600 V a.c. (UL) | 25 | KAC-25 |
| 600 V a.c. (UL) | 30 | KAC-30 |
| 600 V a.c. (UL) | 35 | KAC-35 |
| 600 V a.c. (UL) | 40 | KAC-40 |
| 600 V a.c. (UL) | 45 | KAC-45 |
| 600 V a.c. (UL) | 50 | KAC-50 |
| 600 V a.c. (UL) | 60 | KAC-60 |
| 600 V a.c. (UL) | 70 | KAC-70 |
| 600 V a.c. (UL) | 80 | KAC-80 |
| 600 V a.c. (UL) | 90 | KAC-90 |
| 600 V a.c. (UL) | 100 | KAC-100 |
| 600 V a.c. (UL) | 110 | KAC-110 |
| 600 V a.c. (UL) | 125 | KAC-125 |
| 600 V a.c. (UL) | 150 | KAC-150 |
| 600 V a.c. (UL) | 175 | KAC-175 |
| 600 V a.c. (UL) | 200 | KAC-200 |
| 600 V a.c. (UL) | 225 | KAC-225 |
| 600 V a.c. (UL) | 250 | KAC-250 |
| 600 V a.c. (UL) | 300 | KAC-300 |
| 600 V a.c. (UL) | 350 | KAC-350 |
| 600 V a.c. (UL) | 400 | KAC-400 |
| 600 V a.c. (UL) | 450 | KAC-450 |
| 600 V a.c. (UL) | 500 | KAC-500 |
| 600 V a.c. (UL) | 600 | KAC-600 |
| 600 V a.c. (UL) | 700 | KAC-700 |
| 600 V a.c. (UL) | 800 | KAC-800 |
| 600 V a.c. (UL) | 1000 | KAC-1000 |



Dimensions (in) - 1 A to 30 A and 450 A to 1000 A

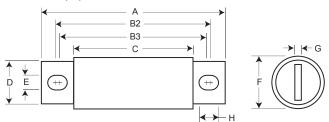




| Rated current (Amps) | Α | B1 | B2 | B3 | C | D | E | F | G | H |
|-------------------------|------|------|----|----|------|------|---|------|------|------|
| 1-30 | 2.88 | 2.5 | - | - | 1.88 | 0.41 | - | 0.56 | 0.06 | 0.26 |
| 450-800 | 6.25 | 4.75 | - | | 3.06 | 2 | - | 2.5 | 0.25 | 0.56 |
| 1000 | 7.25 | 4.75 | - | | 3.06 | 2.75 | - | 3.5 | 0.38 | 0.56 |

1" = 25.4mm

Dimensions (in) - 35 A to 400 A



| Rated current | | | | | | | | | | |
|---------------|------|----|-----------|------|------|------|------|------|------|------|
| (Amps) | Α | B1 | B2 | B3 | C | D | E | F | G | Н |
| 35-60 | 4.38 | - | 3.75 | 3.50 | 2.75 | 0.63 | 0.34 | 0.81 | 0.09 | 0.47 |
| 70-100 | 5 | - | 4.06 | 3.66 | 2.75 | 0.75 | 0.41 | 1 | 0.13 | 0.61 |
| 110-200 | 5.14 | - | 4.39 | 3.77 | 2.91 | 1 | 0.41 | 1.5 | 0.19 | 0.72 |
| 225-400 | 6.18 | - | 4.82 | 4.57 | 3 | 1.63 | 0.56 | 2 | 0.25 | 0.69 |
| 1″ 25 /mm | | | | | | | | | | |

1" = 25.4mm

KBC - 600 V a.c. (UL), 35 A to 800 A

Specifications

Description

North American style bolted tags and flush-end high speed fuse links. These fuse links are supplied as replacements only. For new installations, Eaton recommends the 700 V FWP fuse links.

Technical data

- Rated voltage: 600 V a.c. (UL)
- Rated current: 35 A to 800 A
- Breaking capacity: 100 kA RMS Sym.

Standards / Agency information

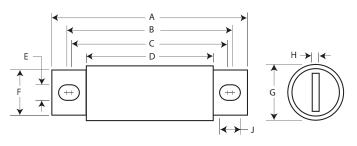
CE, UL file JFHR2.E56412 (35 A to 600 A only)

Catalogue numbers

| | Rated current | Catalogue |
|-----------------|---------------|-----------|
| Rated voltage | (Amps) | numbers |
| 600 V a.c. (UL) | 35 | KBC-35 |
| 600 V a.c. (UL) | 40 | KBC-40 |
| 600 V a.c. (UL) | 45 | KBC-45 |
| 600 V a.c. (UL) | 50 | KBC-50 |
| 600 V a.c. (UL) | 60 | KBC-60 |
| 600 V a.c. (UL) | 70 | KBC-70 |
| 600 V a.c. (UL) | 80 | KBC-80 |
| 600 V a.c. (UL) | 90 | KBC-90 |
| 600 V a.c. (UL) | 100 | KBC-100 |
| 600 V a.c. (UL) | 110 | KBC-110 |
| 600 V a.c. (UL) | 125 | KBC-125 |
| 600 V a.c. (UL) | 150 | KBC-150 |
| 600 V a.c. (UL) | 175 | KBC-175 |
| 600 V a.c. (UL) | 200 | KBC-200 |
| 600 V a.c. (UL) | 225 | KBC-225 |
| 600 V a.c. (UL) | 250 | KBC-250 |
| 600 V a.c. (UL) | 300 | KBC-300 |
| 600 V a.c. (UL) | 350 | KBC-350 |
| 600 V a.c. (UL) | 400 | KBC-400 |
| 600 V a.c. (UL) | 450 | KBC-450 |
| 600 V a.c. (UL) | 500 | KBC-500 |
| 600 V a.c. (UL) | 600 | KBC-600 |
| 600 V a.c. (UL) | 800 | KBC-800 |

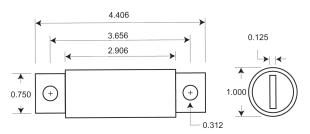


Dimensions (in) - 35 A to 60 A and 110 A to 600 A

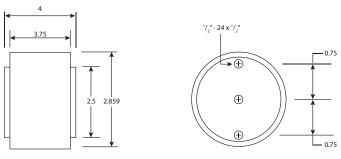


| Rated current | _ | _ | - | _ | _ | _ | _ | | |
|---------------|------|------|------|------|------|------|------|------|------|
| (Amps) | A | В | C | D | E | F | G | H | J |
| 35-60 | 4.38 | 3.75 | 3.50 | 2.75 | 0.34 | 0.63 | 0.81 | 0.09 | 0.47 |
| 110-200 | 4.41 | 3.72 | 3.59 | 2.91 | 0.31 | 0.88 | 1.22 | 0.19 | 0.38 |
| 225-400 | 5.13 | 4.19 | 3.56 | 2.91 | 0.41 | 1 | 1.5 | 0.25 | 0.72 |
| 450-600 | 5.13 | 4.39 | 3.69 | 2.88 | 0.41 | 1.5 | 2 | 0.25 | 0.76 |
| 1" = 25.4mm | | | | | | | | | |

Dimensions (in) - 70 A to 100 A



Dimensions (in) - 800 A



FWP - 700 V a.c. / V d.c.(UL), 5 A to 1200 A

Specifications

Description

North American style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters/ rectifiers, reduced rated voltage starters.

Technical data

- Rated voltage: 700 V a.c. / V d.c. (UL)
- Rated current: 5 A to 1200 A
- · Breaking capacity: see details in table below

Standards / Agency information

CE, UL Recognition JFHR2.E91958 FWP-_B (5 A to 100 A, 700 A to 1200 A), JFHR2.E56412 FWP-_A (125 A to 600 A) and CSA Component Acceptance file class 1422-30, (53787) on 5 A to 800 A

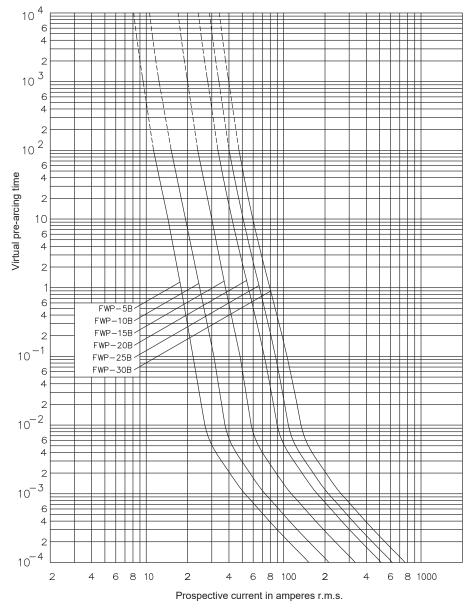
Catalogue numbers



| AC | | DC | | | I²t (A² Sec) | | | |
|---------------|----------------------|--------------------|----------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Rated voltage | Breaking capacity | Rated voltage | Breaking capacity | Rated current (Amps) | Pre-arcing | Clearing at 700 V a.c. | Watts loss (W) | Catalogue numbers |
| 700 V a.c. | 200 kA | 500 V d.c. (10 ms) | 50 kA | 5 | 1.6 | 11 | 1.5 | FWP-5B |
| 700 V a.c. | 200 kA | 500 V d.c. (10 ms) | 50 kA | 10 | 3.6 | 22 | 4 | FWP-10B |
| 700 V a.c. | 200 kA | 500 V d.c. (10 ms) | 50 kA | 15 | 10 | 70 | 5.5 | FWP-15B |
| 700 V a.c. | 200 kA | 500 V d.c. (10 ms) | 50 kA | 20 | 26 | 180 | 6 | FWP-20B |
| 700 V a.c. | 200 kA | 500 V d.c. (10 ms) | 50 kA | 25 | 44 | 320 | 7 | FWP-25B |
| 700 V a.c. | 200 kA | 500 V d.c. (10 ms) | 50 kA | 30 | 58 | 450 | 9 | FWP-30B |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 35 | 34 | 160 | 12 | FWP-35D |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 40 | 76 | 320 | 12 | FWP-40D |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 50 | 135 | 600 | 12 | FWP-50D |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 60 | 210 | 950 | 15.5 | FWP-60D |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 70 | 305 | 2000 | 18 | FWP-70B |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 80 | 360 | 2400 | 21 | FWP-80B |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 90 | 415 | 2700 | 25 | FWP-90B |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 100 | 540 | 3500 | 27 | FWP-100B |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 125 | 1800 | 7300 | 28 | FWP-125A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 150 | 2900 | 11,700 | 32 | FWP-150A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 175 | 4200 | 16,700 | 35 | FWP-175A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 200 | 5500 | 22,000 | 43 | FWP-200A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 225 | 7700 | 31,300 | 45 | FWP-225A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 250 | 10,500 | 42,500 | 48 | FWP-250A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 300 | 17,600 | 71,200 | 58 | FWP-300A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 350 | 23,700 | 95,600 | 65 | FWP-350A |
| 700 V a.c. | 200 kA | 700 V d.c. | 10 kA | 400 | 31,000 | 125,000 | 78 | FWP-400A |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 450 | 36,400 | 137,000 | 94 | FWP-450A |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 500 | 45,200 | 170,000 | 107 | FWP-500A |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 600 | 66,700 | 250,000 | 122 | FWP-600A |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 700 | 54,000 | 300,000 | 125 | FWP-700A |
| 700 V a.c. | 200 kA | 700 V d.c. | 50 kA | 800 | 78,000 | 450,000 | 140 | FWP-800A |
| 700 V a.c. | 200 kA | N/A | N/A | 900 | 91,500 | 530,000 | 150 | FWP-900A |
| 700 V a.c. | 200 kA | N/A | N/A | 1000 | 120,000 | 600,000 | 170 | FWP-1000A |
| 700 V a.c. | 200 kA | N/A | N/A | 1200 | 195,000 | 1,100,000 | 190 | FWP-1200A |

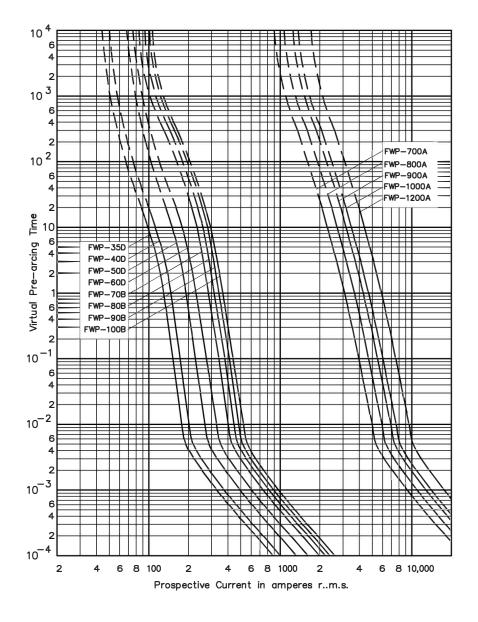
FWP - 700 V a.c. / V d.c.(UL), 5 A to 1200 A

Time-current curve - 5 A to 30 A



FWP - 700 V a.c. / V d.c.(UL), 5 A to 1200 A

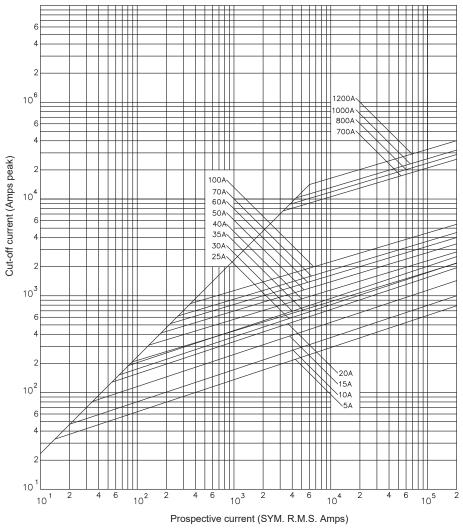
Time-current curve - 35 A to 1200 A



Contact FUSETECH@eaton.com for the time current curves for the following ratings: 125 A to 600 A

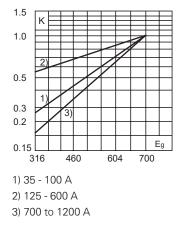
FWP - 700 V a.c. / V d.c.(UL), 5 A to 1200 A

Cut-off curve - 5 A to 1200 A



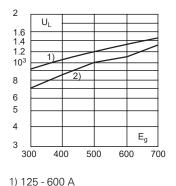
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



Arc voltage

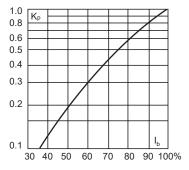
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



2) 35 - 100 and 700 - 1200 A

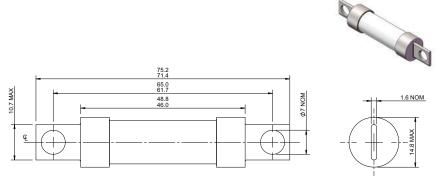
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

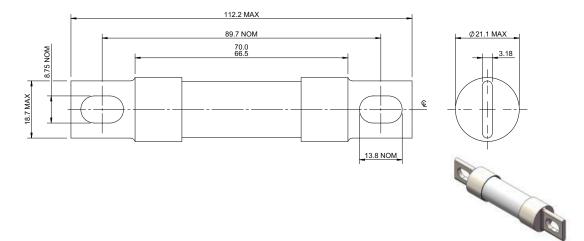


FWP - 700 V a.c. / V d.c.(UL), 5 A to 1200 A

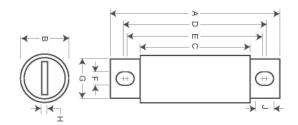
Dimensions (in) - 5 A to 30 A



Dimensions (in) - 35 A to 60 A



Dimensions (in) - 70 A to 600 A

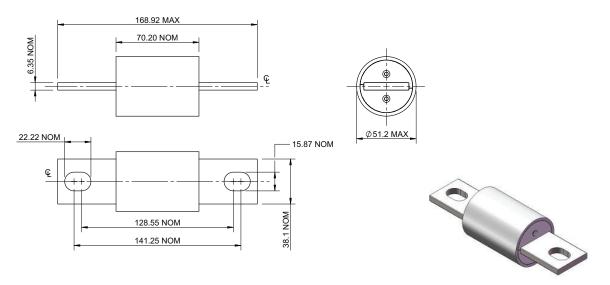


| Amp range | Α | В | C | D | Е | F | G | Н | J |
|-----------|------|------|------|------|------|------|------|------|------|
| 70-100 | 4.41 | 0.95 | 2.59 | 3.63 | 3.56 | 0.34 | 0.75 | 0.13 | 0.38 |
| 125-200 | 5.09 | 1.5 | 2.84 | 4.19 | 3.5 | 0.41 | 1 | 0.25 | 0.75 |
| 225-400 | 5.09 | 2 | 2.84 | 4.28 | 3.53 | 0.41 | 1.5 | 0.25 | 0.78 |
| 450-600 | 7.09 | 2.5 | 2.84 | 5.72 | 4.19 | 0.53 | 2 | 0.38 | 1.3 |
| 1″ 2E 4mm | | | | | | | | | |

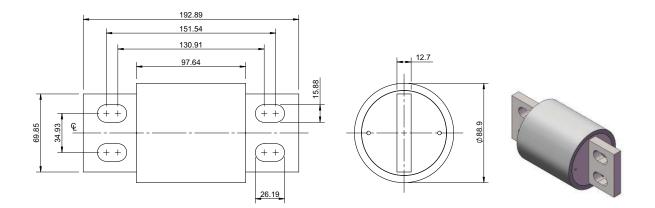
1" = 25.4mm

FWP - 700 V a.c. / V d.c.(UL), 5 A to 1200 A

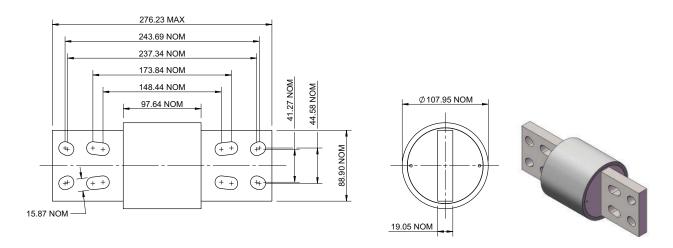
Dimensions (in) - 700 A and 800 A



Dimensions (in) - 900 A and 1000 A



Dimensions (mm) - 1200 A



FWJ - 1000 V a.c. / 800 V d.c. (UL), 35 A to 2000 A

Specifications

Description

North American style bolted tags high speed fuse links for the protection of DC common bus, DC drives power converters/ rectifiers, reduced rated voltage starters.

Technical data

- Rated voltage:
 - 1000 V a.c. (UL)
 - 800 V d.c. (UL)
- Rated current: 35 A to 2000 A
- · Breaking capacity:
 - 25kA RMS Sym. (35 A to 200 A)
 - 100 kA RMS Sym. (250 A to 2000 A)

• 50 kA at 800 V d.c. (35 A to 200 A and 450 A to 600 A)

Standards / Agency information

CE, UL Recognition JFHR8.E91958 on 50 A to 600 A only

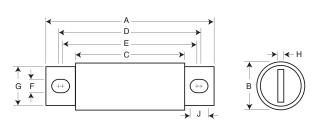
Catalogue numbers



| AC | | DC | | _ Rated | l²t (A² Sec) | | | | |
|------------------|----------------------|------------------|----------------------|-------------------|--------------|----------------------------|-------------------|----------------------|--|
| Rated voltage | Breaking capacity | Rated voltage | Breaking capacity | current (Amps) | Pre-arcing | Clearing at 1000 V a.c. | Watts loss (W) | Catalogue numbers | |
| | | | | 35 | 210 | 2000 | 7 | FWJ-35A | |
| | | | | 40 | 300 | 2500 | 8 | FWJ-40A | |
| | | | | 50 | 470 | 3500 | 10 | FWJ-50A | |
| | | | | 60 | 670 | 5000 | 11 | FWJ-60A | |
| | | | | 70 | 1100 | 6900 | 12 | FWJ-70A | |
| 1000 \/ | | 000 \/ -! - | | 80 | 1550 | 9700 | 13 | FWJ-80A | |
| 1000 V a.c. | 25 KA | 800 V d.c. | 50 kA | 90 | 1900 | 12,000 | 14 | FWJ-90A | |
| | | | | 100 | 2800 | 17,500 | 15 | FWJ-100A | |
| | | | | 125 | 4800 | 35,000 | 16 | FWJ-125A | |
| | | | | 150 | 6300 | 45,000 | 25 | FWJ-150A | |
| | | | 175 | 7500 | 65,000 | 30 | FWJ-175A | | |
| | | | | 200 | 11,700 | 80,000 | 32 | FWJ-200A | |
| | | | | 250 | 16,000 | 112,000 | 50 | FWJ-250A | |
| 1000 \/ | 100 1.4 | | N1 / A | 300 | 23,500 | 164,000 | 56 | FWJ-300A | |
| 1000 V a.c. | TUU KA | N/A | N/A | 350 | 33,000 | 231,000 | 62 | FWJ-350A | |
| | | | | 400 | 47,000 | 330,000 | 67 | FWJ-400A | |
| | | | | 500 | 39,500 | 329,000 | 95 | FWJ-500A | |
| | | | | 600 | 61,000 | 520,000 | 105 | FWJ-600A | |
| | | | | 800 | 87,000 | 500,000 | 182 | FWJ-800A | |
| | | | | 1000 | 190,000 | 1,100,000 | 206 | FWJ-1000A | |
| 1000 V a.c. | 100 kA | 800 V d.c. | 50 kA | 1200 | 370,000 | 2,100,000 | 240 | FWJ-1200A | |
| | | | | 1400 | 470,000 | 2,700,000 | 248 | FWJ-1400A | |
| | | | | 1600 | 700,000 | 4,000,000 | 267 | FWJ-1600A | |
| | | | | 1800 | 925,000 | 5,300,000 | 239 | FWJ-1800A | |
| | | | | 2000 | 1,330,000 | 7,600,000 | 244 | FWJ-2000A | |

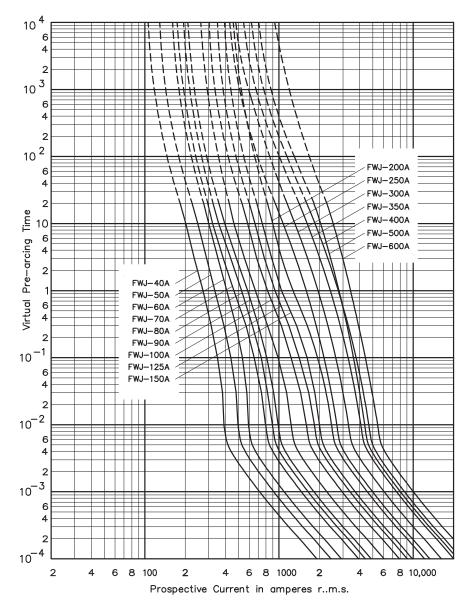
FWJ - 1000 V a.c. / 800 V d.c. (UL), 35 A to 2000 A

Dimensions (in) - 35 A to 2000 A



| Amp range | Α | В | C | D | Е | F | G | Н | J |
|-------------|------|------|------|------|------|------|------|------|------|
| 35-60 | 5 | 0.94 | 3.11 | 4.24 | 4.18 | 0.35 | 0.75 | 0.13 | 0.38 |
| 70-100 | 4.93 | 1.13 | 3.09 | 4.27 | 4.16 | 0.35 | 1 | 0.19 | 0.41 |
| 125-200 | 5.69 | 1.53 | 3.26 | 4.80 | 4.06 | 0.45 | 1 | 0.25 | 0.82 |
| 250-400 | 5.77 | 2 | 3.5 | 4.81 | 4.15 | 0.43 | 1.5 | 0.25 | 0.76 |
| 500-600 | 7.20 | 2.5 | 3.47 | 5.98 | 4.71 | 0.56 | 2 | 0.38 | 1.2 |
| 800-2000 | 6.81 | 3.5 | 3.31 | 5.47 | 4.96 | 0.63 | 2.75 | 0.5 | 0.88 |
| 1" = 25.4mm | | | | | | | | | |

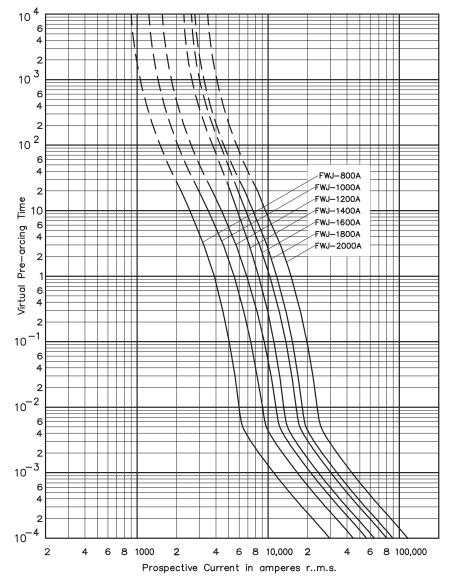
Time-current curve - 35 A to 600 A



Data sheets: 720027, 5785303 (35-600 A), 5785309 (800-2000 A), E5785173

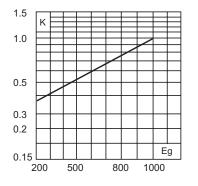
FWJ - 1000 V a.c. / 800 V d.c. (UL), 35 A to 2000 A

Time-current curve - 800 A to 2000 A



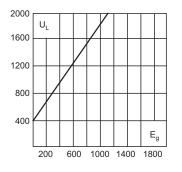
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



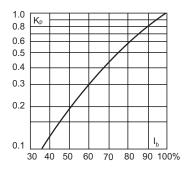
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FWE - 1000 V d.c. (IEC/UL), 70 A to 600 A

Specifications

Description

North American style bolted tags high speed fuse links designed for the protection of DC charging stations, specialist vehicle onboard applications and general DC power conversion equipment and battery systems voltage starters.

Technical data

- Rated voltage: 1000 V d.c. (IEC/UL)
- Rated current: 70 A to 600 A
- Breaking capacity: 100 kA
- Operating class: aR

Standards / Agency information

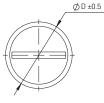
CE, IEC 60269-4 and UL 248-13 Recognised

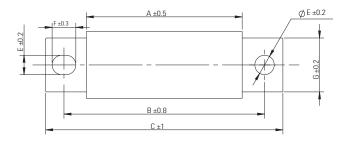
Catalogue numbers

| Rated voltage | Rated current | Watts loss (50% rated current) | Watts loss (100% rated current) | Pre-arcing I²t (A² Sec) | Clearing I ² t | Breaking capacity | Operating class | Catalogue number |
|------------------|------------------|--------------------------------------|---------------------------------------|----------------------------|---------------------------|----------------------|--------------------|---------------------|
| | 70 | 3.8 | 21 | 680 | 3500 | 100 kA | aR | FWE-70A |
| | 80 | 4.2 | 24 | 1020 | 5000 | 100 kA | aR | FWE-80A |
| | 90 | 4.6 | 27 | 1400 | 6500 | 100 kA | aR | FWE-90A |
| | 100 | 5 | 30 | 1820 | 8500 | 100 kA | aR | FWE-100A |
| | 125 | 6 | 43 | 1830 | 7800 | 100 kA | aR | FWE-125A |
| | 150 | 7 | 49 | 2670 | 12000 | 100 kA | aR | FWE-150A |
| | 175 | 8 | 52 | 4670 | 20700 | 100 kA | aR | FWE-175A |
| | 200 | 9 | 56 | 6900 | 29300 | 100 kA | aR | FWE-200A |
| 1000 V d.c. | 225 | 10 | 69 | 7880 | 31600 | 100 kA | aR | FWE-225A |
| (IEC/UL) | 250 | 11 | 79 | 9940 | 39900 | 100 kA | aR | FWE-250A |
| | 275 | 12 | 83 | 13000 | 52100 | 100 kA | aR | FWE-275A |
| | 300 | 13 | 87 | 16800 | 67500 | 100 kA | aR | FWE-300A |
| | 350 | 15 | 100 | 21100 | 89300 | 100 kA | aR | FWE-350A |
| | 400 | 16 | 110 | 31500 | 125500 | 100 kA | aR | FWE-400A |
| | 450 | 19 | 139 | 35300 | 166200 | 100 kA | aR | FWE-450A |
| | 500 | 21 | 155 | 49300 | 203900 | 100 kA | aR | FWE-500A |
| | 550 | 23 | 167 | 58600 | 322600 | 100 kA | aR | FWE-550A |
| | 600 | 25 | 180 | 74700 | 346500 | 100 kA | aR | FWE-600A |

Dimensions (cm)





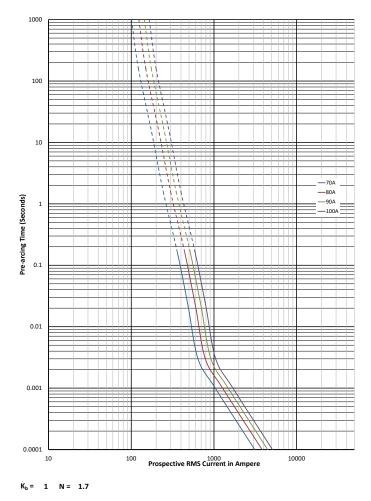


| Catalogue number | Α | В | C | D | Е | F | G | Н |
|------------------|------|-----|-----|------|----|----|----|-----|
| 70A to 100A | 72.2 | 93 | 110 | 25.4 | 9 | 11 | 19 | 2.2 |
| 125A to 200A | 72.2 | 93 | 110 | 31 | 9 | 11 | 25 | 3 |
| 225A to 300A | 72.2 | 100 | 122 | 38.1 | 11 | 13 | 28 | 3.5 |
| 350A to 400A | 72.2 | 100 | 122 | 50.8 | 11 | 13 | 28 | 5 |
| 450A to 600A | 72.2 | 100 | 122 | 63.5 | 11 | 13 | 40 | 6 |



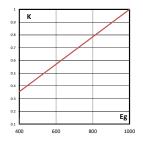
FWE - 1000 V d.c. (IEC/UL), 70 A to 600 A

Time-current curve - 70 A to 100 A



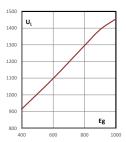
Total clearing l²t

The total clearing I²t at rated voltage and tested DC time constant are given in electrical characteristics. For other voltages the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltages, E_{α} .



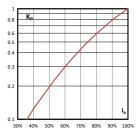
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , at a time constant of 10ms.



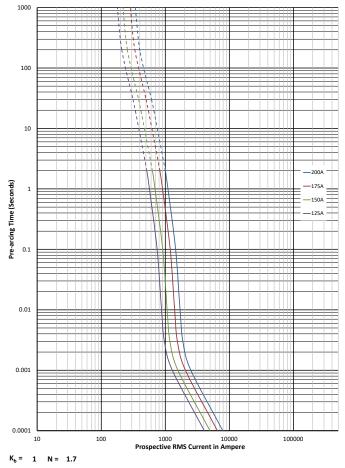
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



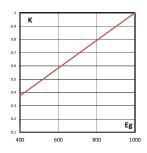
FWE - 1000 V d.c. (IEC/UL), 70 A to 600 A

Time-current curve - 125 A to 200 A



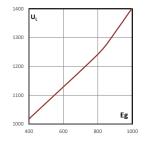
Total clearing l²t

The total clearing I^2t at rated voltage and tested DC time constant are given in electrical characteristics. For other voltages the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltages, E_a .



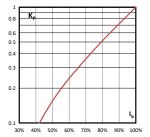
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, $E_{g'}$, at a time constant of 10ms.



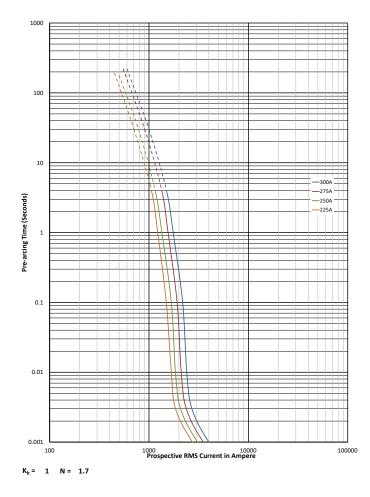
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



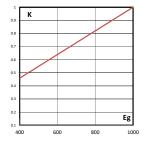
FWE - 1000 V d.c. (IEC/UL), 70 A to 600 A

Time-current curve - 225 A to 300 A



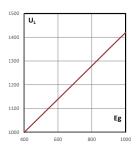
Total clearing l²t

The total clearing I^2t at rated voltage and tested DC time constant are given in electrical characteristics. For other voltages the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltages, E_a .



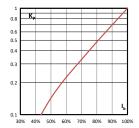
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , at a time constant of 10ms.



Watts losses

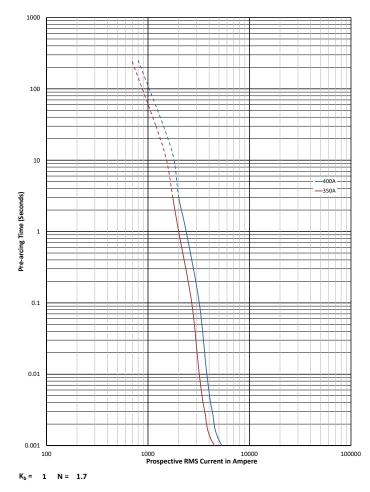
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



North American fuse links

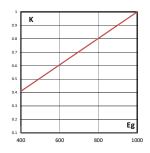
FWE - 1000 V d.c. (IEC/UL), 70 A to 600 A

Time-current curve - 350 A and 400 A



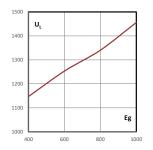
Total clearing l²t

The total clearing I²t at rated voltage and tested DC time constant are given in electrical characteristics. For other voltages the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltages, E_g .



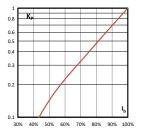
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , at a time constant of 10ms.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



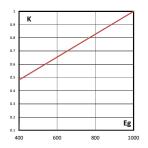
FWE - 1000 V d.c. (IEC/UL), 70 A to 600 A

1000 100 11 10 -600A -550A Pre-arcing Time (Seconds) -5004 450A 1 0.1 0.01 0.001 100 1000 10000 Prospective RMS Current in Ampere 100000 $K_{\rm b} = 1$ N = 1.7

Time-current curve - 450 A to 600 A

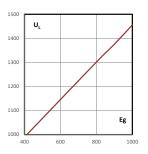
Total clearing l²t

The total clearing I²t at rated voltage and tested DC time constant are given in electrical characteristics. For other voltages the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltages, E_g .



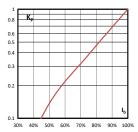
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, $E_{g'}$, at a time constant of 10ms.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

Specifications

Description

BS88 style bolted tags fuse high speed links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Low Watts loss in a compact size.

Technical Data

- Rated voltage:
 - LCT 240 V a.c. / 150 V d.c. (IEC)
 - 250 V a.c. / 150 V d.c. (UL)
 - LET 280 V a.c. / 150 V d.c. (UL, 25 A to 160 A)
 - 250 V a.c. / 150 V d.c. (UL 180 A)
- Rated current: 6 A to 180 A
- Breaking capacity:
- 200 kA RMS Sym.
 - 50 kA DC at 150 V d.c.
- Operating Class: aR

Compatible trip indicator and microswitch for LET fuse links

• See details page 395

Standards / Agency information

CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL Recognised and CCC (LCT only). All fuse links have been tested at 318V a.c..Consult Eaton for specific UL recognition status.

Catalogue numbers

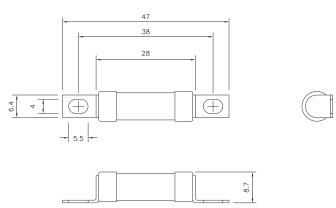
| | | | I²t (A² Sec) | | | |
|-------------------|-------------------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link type | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 240 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 6 | 2 | 9 | 1 | 6LCT |
| | 240 V a.c. / 150 V d.c. (IEC) | 10 | 3.8 | 22 | 2.5 | 10LCT |
| LCT | | 12 | 7 | 32 | 2.5 | 12LCT |
| | 250 V a.c. / 150 V d.c. (UL) | 16 | 20 | 100 | 2.5 | 16LCT |
| | | 20 | 25 | 160 | | 20LCT |
| | | 25 | 18 | 250 | 4 | 25LET |
| | | 32 | 32 | 450 | 5 | 32LET |
| | | 35 | 50 | 600 | 5 | 35LET |
| | | 50 | 100 | 1400 | 7 | 50LET |
| ILL | 280 V a.c. / 150 V d.c. (UL) | 63 | 180 | 2200 | 9 | 63LET |
| LET | | 80 | 300 | 3800 | 10 | 80LET |
| | | 100 | 600 | 7500 | 10 | 100LET |
| | | 125 | 600 | 7500 | 16 | 125LET |
| | | 160 | 1100 | 16,000 | 20 | 160LET |
| | 250 V a.c. / 150 V d.c. (UL) | 180 | 1600 | 29,000 | 21 | 180LET |

Note: 7LET, 10LET, 12LET and 16LET are available for replacement purposes on existing equipment.

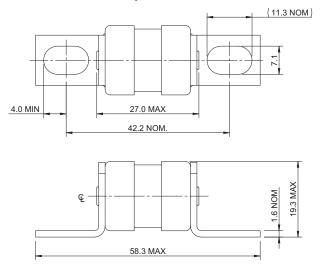


LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

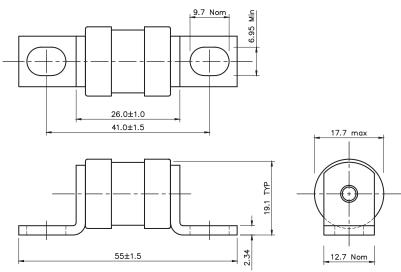
Dimensions (mm) - LCT



Dimensions (mm) - LET, up to 63 A



Dimensions (mm) - LET, greater than 63 A



Indicator (optional).

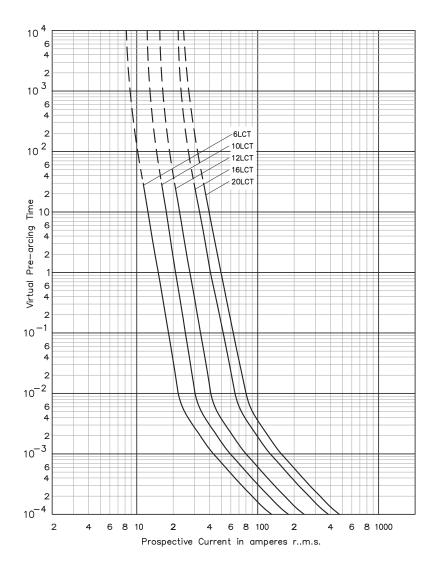
Data sheets: 720004, 5785296 (LCT), 5785293 (LET)





LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

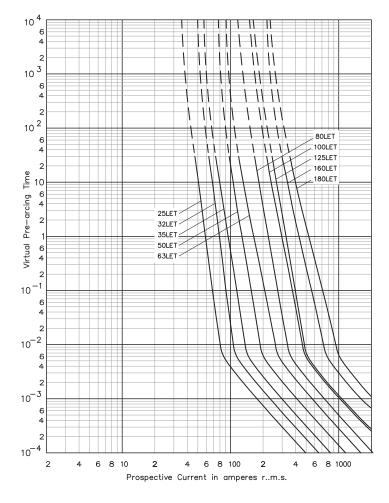
Time-current curve - LCT, 6 A to 20 A



Data sheets: 720004, 5785296 (LCT), 5785293 (LET)

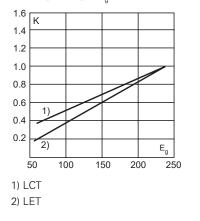
LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

Time-current curve - LET, 25 A to 180 A



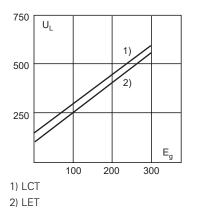
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



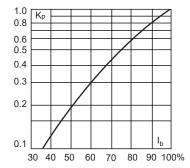
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



LMT, LMMT - 240 V a.c. / 150 V d.c. (IEC), 250 V a.c. / 150 V d.c. (UL), 160 A to 900 A

Specifications

Description

BS88 style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rate voltage starters. Low watts loss in a compact size.

Technical Data

- Rated voltage:
 - 240 V a.c. / 150 V d.c. (IEC)
 - 250 V a.c. / 150 V d.c. (UL)
- Rated current: 160 A to 900 A
- Breaking capacity:
 - 200 kA RMS Sym., 40 kA at 150 V d.c. (IEC)
 - 200 kA RMS Sym., 50 kA at 150 V d.c. (UL)
- Operating Class: aR

Compatible trip indicator and microswitch

• See details page 395

Standards / Agency information

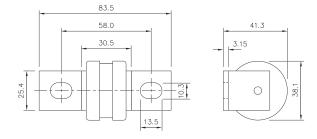
CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL recognised and CCC. All fuse links have been tested at 318V a.c. Consult Eaton for specific UL recognition status.

Catalogue numbers



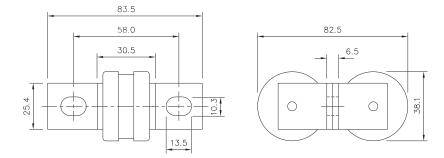
| | | | l²t (A² Sec) | | | | |
|-------------------|-------------------------------|-------------------------|--------------|---------------------------|---------------------------|-------------------|----------------------|
| Fuse link type | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 120 V a.c. | Clearing at 240 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 160 | 1100 | 7000 | 16,000 | 17 | 160LMT |
| | | 200 | 1500 | 10,000 | 20,000 | 28 | 200LMT |
| LMT | 240 V a.c. / 150 V d.c. (IEC) | 250 | 3200 | 20,000 | 40,000 | 28 | 250LMT |
| | | 315 | 6000 | 35,000 | 75,000 | 35 | 315LMT |
| Single barrel | 250 V a.c. / 150 V d.c. (UL) | 355 | 8000 | 50,000 | 100,000 | 35 | 355LMT |
| | | 400 | 14,000 | 70,000 | 160,000 | 40 | 400LMT |
| | | 450 | 18,000 | 100,000 | 220,000 | 42 | 450LMT |
| | | 400 | 6000 | 35,000 | 80,000 | 60 | 400LMMT |
| | | 500 | 14,000 | 80,000 | 170,000 | 64 | 500LMMT |
| LMMT | 240 V a.c. / 150 V d.c. (IEC) | 630 | 24,000 | 150,000 | 300,000 | 75 | 630LMMT |
| Double barrel | 250 V a.c. / 150 V d.c. (UL) | 710 | 32,000 | 200,000 | 460,000 | 77 | 710LMMT |
| | | 800 | 52,000 | 300,000 | 600,000 | 82 | 800LMMT |
| | | 900 | 75,000 | 400,000 | 800,000 | 97 | 900LMMT |

Dimensions (mm) - LMT (indicator optional)

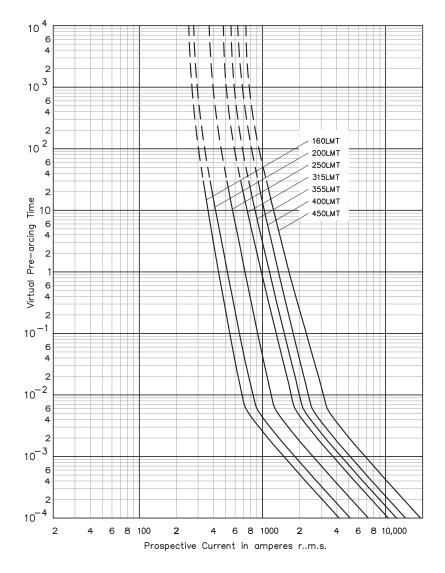


LMT, LMMT - 240 V a.c. / 150 V d.c. (IEC), 250 V a.c. / 150 V d.c. (UL), 160 A to 900 A

Dimensions (mm) - LMMT (indicator optional)

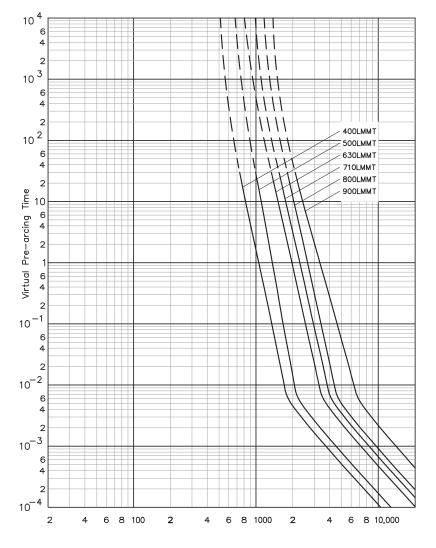


Time-current curve - LMT, 160 A to 450 A



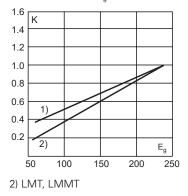
LMT, LMMT - 240 V a.c. / 150 V d.c. (IEC), 250 V a.c. / 150 V d.c. (UL), 160 A to 900 A

Time-current curve - LMMT, 400 A to 900 A



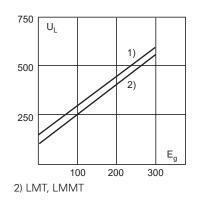
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_a , (RMS).



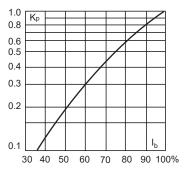
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



Data sheets: 720004, 5785294 (LMT), 5785295 (LMMT)

CT, ET, FE, EET, FEE - 690 V a.c. / 500 V d.c. (IEC), 700 V a.c ./ 500 V d.c. (UL), 6 A to 200 A

Specifications

Description

BS88 style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

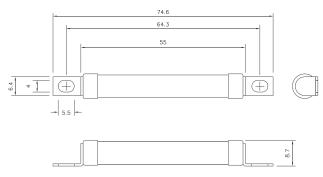
Technical data

- Rated voltage:
 - 690 V a.c. / 500 V d.c. (IEC)
- 700 V a.c. / 500 V d.c. (UL)
- Rated current: 6 A to 200 A
- Breaking capacity:
 - CT: 90 kA RMS Sym., 40 kA at 500 V d.c. (IEC)
- 200 kA RMS Sym., 50 kA at 500 V d.c. (UL)
- ET, EET, FE and FEE: 200 kA RMS Sym.,50 kA at 500 V d.c.
- Operating Class: aR.
- **Compatible trip indicator and microswitch**
- See details page 395

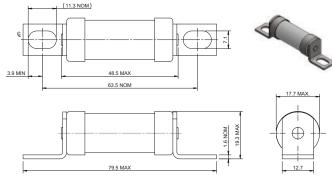
Standards / Agency information

CE, designed and tested to BS88 part 4, IEC 60269 Part 4, Consult Eaton for specific UL Recognition status. CCC for ET, FE, EET, FEE.

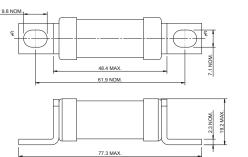
Dimensions (mm) - CT



Dimensions (mm) - ET, FE up to 63 A

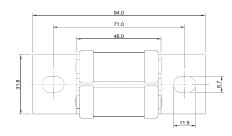


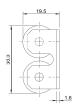
Dimensions (mm) - ET, FE greater than 63 A





Dimensions (mm) - EET and FEE







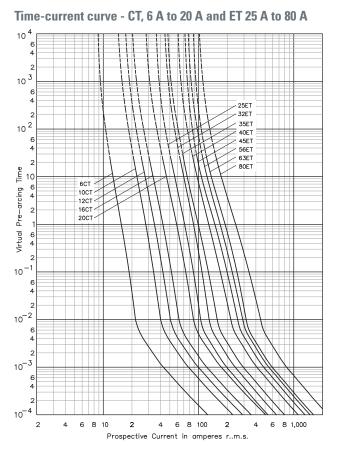
CT, ET, FE, EET, FEE - 690 V a.c./500 V d.c. (IEC), 700 V a.c./500 V d.c. (UL), 6 A to 200 A

Catalogue numbers

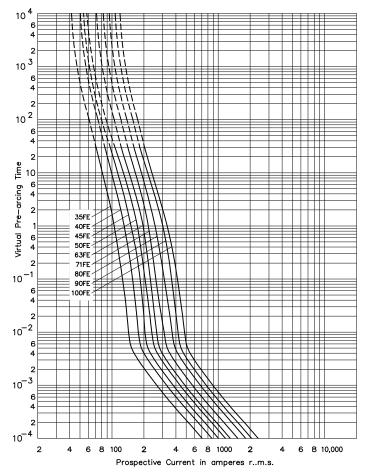
| | | | I²t (A² Sec) | | | | |
|----------------|---|-------------------------|--------------|--------------------------|---------------------------|-------------------|----------------------|
| Fuse link type | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 415V a.c. | Clearing at 660 V a.c. | Watts loss (W) | Catalogue numbers |
| | - | 6 | 1.8 | 8.5 | 12 | 2 | 6CT |
| | 690 V a.c. / 500 V d.c. (IEC) | 10 | 7 | 30 | 48 | 3 | 10CT |
| CT | | 12 | 10 | 40 | 65 | 3 | 12CT |
| | 700 V a.c. / 500 V d.c. (UL) | 16 | 16 | 66 | 110 | 7 | 16CT |
| | | 20 | 32 | 150 | 220 | 7 | 20CT |
| | | 25 | 25 | 150 | 250 | 7 | 25ET |
| | | 32 | 32 | 190 | 350 | 11 | 32ET |
| | | 35 | 52 | 310 | 500 | 11 | 35ET |
| - | 690 V a.c. / 500 V d.c. (IEC) | 40 | 103 | 600 | 900 | 9 | 40ET |
| ET | 700 V a.c. / 500 V d.c. (UL) | 45 | 103 | 680 | 1100 | 11 | 45ET |
| | | 56 | 135 | 950 | 1500 | 14 | 56ET |
| | | 63 | 171 | 1200 | 2000 | 16 | 63ET |
| | | 80 | 360 | 2500 | 4000 | 18 | 80ET |
| | | 35 | 33 | 130 | 200 | 9 | 35FE |
| | 690 V a.c. / 500 V d.c. (IEC) | 40 | 52 | 180 | 300 | 9 | 40FE |
| | | 45 | 76 | 270 | 450 | 11 | 45FE |
| | | 50 | 103 | 380 | 600 | 11 | 50FE |
| E | , , , , | 63 | 135 | 480 | 750 | 12 | 63FE |
| | 700 V a.c. / 500 V d.c. (UL) | 71 | 210 | 600 | 950 | 17 | 71FE |
| | | 80 | 250 | 900 | 1500 | 20 | 80FE |
| | | 90 | 360 | 1300 | 2100 | 20 | 90FE |
| | | 100 | 470 | 1800 | 2800 | 23 | 100FE |
| | | 90 | 490 | 3000 | 4500 | 19 | 90EET |
| | 690 V a.c. / 500 V d.c. (IEC) | 110 | 600 | 4000 | 6500 | 27 | 110EET |
| EET | 700 V a.c. / 700 V d.c. (UL) | 140 | 1050 | 7000 | 12,000 | 35 | 140EET |
| | , | 160 | 1500 | 10,000 | 17,000 | 39 | 160EET |
| | | 100 | 400 | 1600 | 2400 | 24 | 100FEE |
| | | 120 | 540 | 1900 | 3100 | 32 | 120FEE |
| | 690 V a.c. / 500 V d.c. (IEC) | 140 | 850 | 2500 | 3800 | 36 | 140FEE |
| EE | 700 V a.c. / 500 V d.c. (UL) | 160 | 1000 | 3700 | 5700 | 46 | 160FEE |
| | , | 180 | 1400 | 5300 | 8400 | 46 | 180FEE |
| | | 200 | 1900 | 7100 | 11,400 | 52 | 200FEE |

Note: FC, 8ET, 12ET, 15ET, 20ET, 65EET and 75EET are available for replacement purposes on existings equipment.

CT, ET, FE, EET, FEE -690 V a.c. / 500 V d.c. (IEC), 700 V a.c ./ 500 V d.c. (UL), 6 A to 200 A

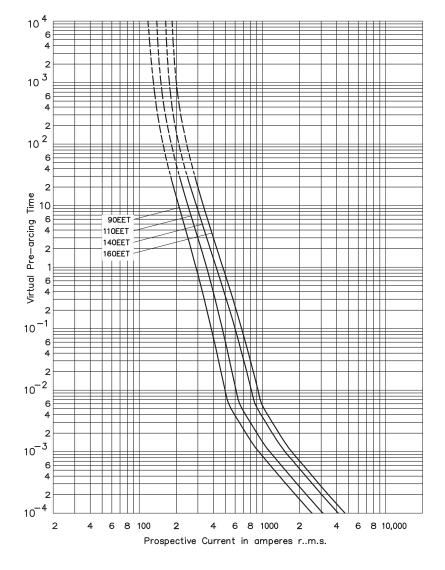






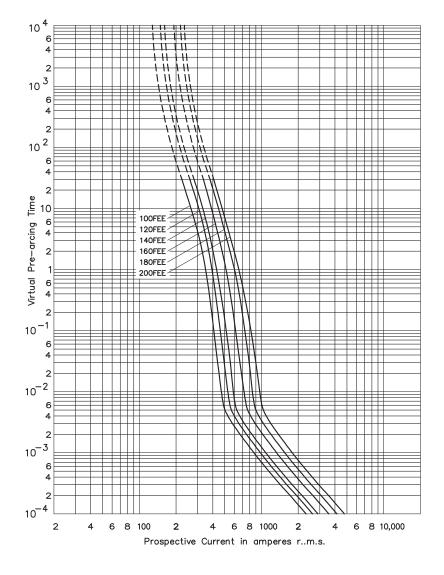
CT, ET, FE, EET, FEE - 690 V a.c. / 500 V d.c. (IEC), 700 V a.c ./ 500 V d.c. (UL), 6 A to 200 A

Time-current curve - EET, 90 A to 160 A



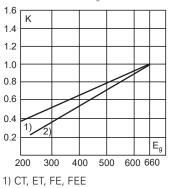
CT, ET, FE, EET, FEE - 690 V a.c./500 V d.c. (IEC), 700 V a.c./500 V d.c. (UL), 6 A to 200 A

Time-current curve - FEE, 100 A to 200 A



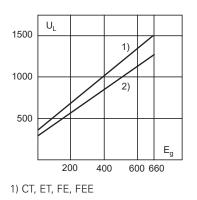
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



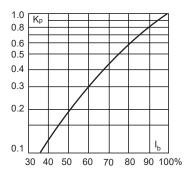
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Specifications

Description

BS88 style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - FM: 690 V a.c. / 450 V d.c. (IEC); 700 V a.c./500 V d.c. (UL)
 - FMM: 690 V a.c. / 450 V d.c. (IEC)
- MT and MMT: 690 V a.c. / 350 V d.c. (IEC); 700 V a.c. (UL)
- Rated current: 160 A to 710 A
- Breaking capacity:
 - FM: 200 kA RMS Sym. (IEC/UL), 40 kA at 450 V d.c. (IEC), 50 kA at 500 V d.c. (UL)
 - FMM: 200 kA RMS Sym. (IEC/UL), 40 kA at 450 V d.c. (IEC)
 - MT & MMT: 200 kA RMS Sym. (IEC/UL), 40 kA at 350 V d.c. (IEC)
- Operating Class: aR

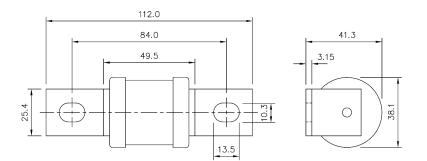
Compatible trip indicator and microswitch

• See details page 395

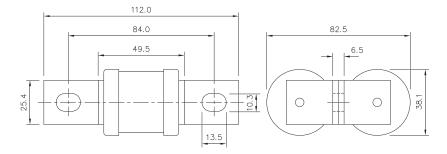
Standards / Agency information

CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL Recognised. MT and MMT 350 V d.c. (IEC) rating. Consult Eaton for specific UL Recognition status. CCC for FM and FMM.

Dimensions (mm) - FM and MT (indicator optional)



Dimensions (mm) - FMM and MMT (indicator optional)







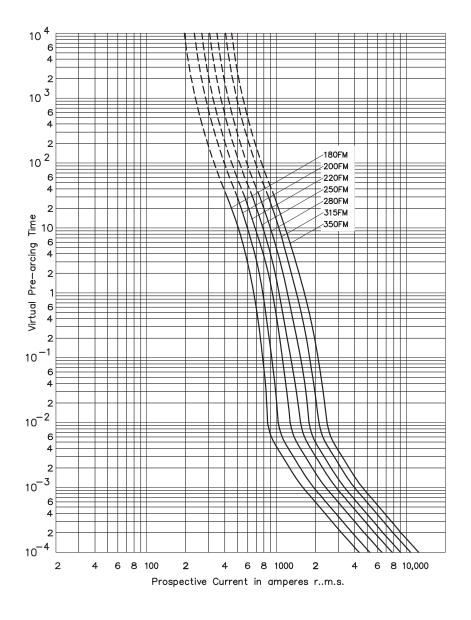
FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Catalogue numbers

| | | | I²t (A² Sec) | | | | |
|----------------|-------------------------------|-------------------------|--------------|--------------------------|---------------------------|-------------------|----------------------|
| Fuse link type | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 415V a.c. | Clearing at 660 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 180 | 1400 | 7500 | 13,500 | 40 | 180FM |
| FM | | 200 | 2600 | 10,500 | 18,500 | 40 | 200FM |
| | 690 V a.c. / 450 V d.c. (IEC) | 225 | 3700 | 14,500 | 26,500 | 44 | 225FM |
| | | 250 | 5200 | 20,500 | 37,500 | 48 | 250FM |
| | 700 V a.c. / 500 V d.c. (UL) | 280 | 7000 | 30,500 | 55,000 | 48 | 280FM |
| | | 315 | 10,000 | 40,000 | 77,000 | 55 | 315FM |
| | | 350 | 15,000 | 60,000 | 105,000 | 55 | 350FM |
| | | 400 | 10,000 | 40,000 | 72,500 | 85 | 400FMM |
| | | 450 | 15,000 | 60,000 | 105,000 | 90 | 450FMM |
| | 690 V a.c. / 450 V d.c. (IEC) | 500 | 20,000 | 82,000 | 150,000 | 100 | 500FMM |
| FIVIIVI | | 550 | 30,000 | 120,000 | 215,000 | 100 | 550FMM |
| | | 630 | 45,000 | 180,000 | 310,000 | 100 | 630FMM |
| | | 700 | 60,000 | 245,000 | 420,000 | 120 | 700FMM |
| | | 160 | 2400 | 15,000 | 25,000 | 26 | 160MT |
| | | 180 | 3800 | 25,000 | 38,000 | 26 | 180MT |
| | 690 V a.c. / 350 V d.c. (IEC) | 200 | 6000 | 40,000 | 58,000 | 27 | 200MT |
| MT | | 250 | 11,500 | 80,000 | 110,000 | 32 | 250MT |
| | 700 V a.c. (UL) | 280 | 16,500 | 100,000 | 150,000 | 35 | 280MT |
| | | 315 | 19,000 | 125,000 | 180,000 | 42 | 315MT |
| FMM FMM MT | | 355 | 22,000 | 160,000 | 200,000 | 51 | 355MT |
| | | 180 | 1650 | 12,000 | 18,000 | 42 | 180MMT |
| | | 200 | 2200 | 16,000 | 23,000 | 42 | 200MMT |
| | | 225 | 3700 | 26,000 | 40,000 | 42 | 225MMT |
| | | 280 | 6600 | 47,000 | 70,000 | 47 | 280MMT |
| | | 315 | 8600 | 62,000 | 91,000 | 51 | 315MMT |
| N AN AT | 690 V a.c. / 350 V d.c. (IEC) | 355 | 13,500 | 97,000 | 140,000 | 54 | 355MMT |
| IVIIVII | 700 V a.c. (UL) | 400 | 21,000 | 150,000 | 220,000 | 60 | 400MMT |
| | | 450 | 30,000 | 220,000 | 320,000 | 57 | 450MMT |
| | | 500 | 42,000 | 300,000 | 450,000 | 64 | 500MMT |
| | | 560 | 60,000 | 430,000 | 640,000 | 64 | 560MMT |
| | | 630 | 68,500 | 500,000 | 720,000 | 86 | 630MMT |
| | | 710 | 78,000 | 600,000 | 850,000 | 105 | 710MMT |

FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

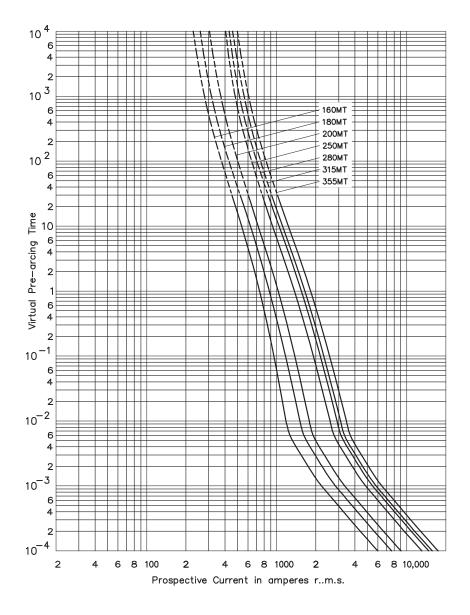
Time-current curve - FM, 180 A to 350 A



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

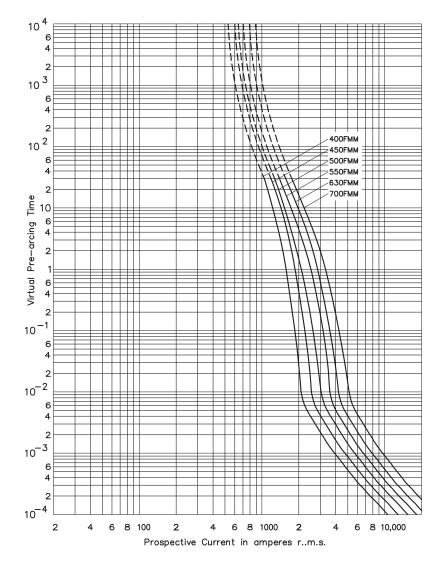
FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Time-current curve - MT, 160 A to 355 A



FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

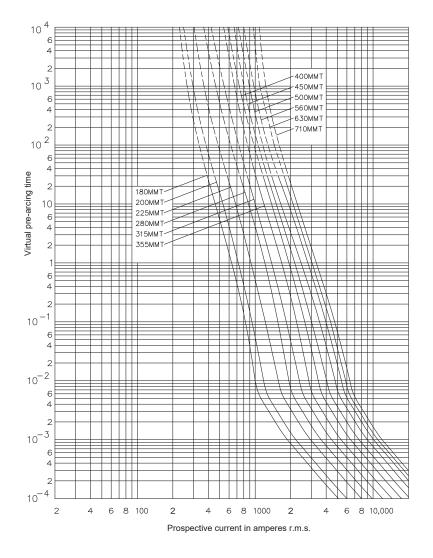
Time-current curve - FMM, 400 A to 700 A



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

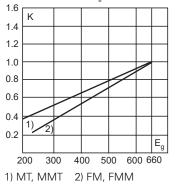
FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Time-current curve - MMT, 180 A to 710 A



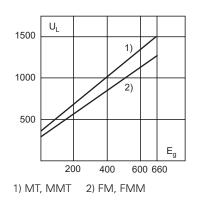
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



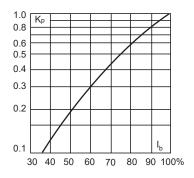
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

FWA - 10 x 38 mm and 21 x 51 mm, 150 V a.c. / V d.c. (UL), 5 A to 60 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage: 150 V a.c. / V d.c. (UL)
- Rated current: 5 A to 60 A
- Breaking capacity:
 - 200 kA RMS Sym.
 - 50 kA DC at 150 V d.c.
- Operating class: aR

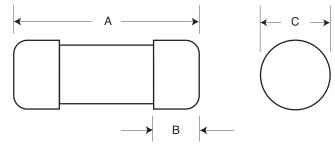
Standards / Agency information

CE, UL recognised

Catalogue numbers

| | | | I²t (A² Sec) | | | |
|--|-----------------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 150 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 5 | 1.6 | 8 | 2 | FWA-5A10F |
| | | 10 | 3.6 | 16 | 2.7 | FWA-10A10F |
| 10 x 38 mm | 150 V a.c. / V d.c. | 15 | 14 | 50 | 3.3 | FWA-15A10F |
| (¹³ / ₃₂ " x 1½") | (UL) | 20 | 33 | 130 | 3.8 | FWA-20A10F |
| | | 25 | 58 | 220 | 4.9 | FWA-25A10F |
| | | 30 | 100 | 400 | 4.9 | FWA-30A10F |
| | | 35 | 75 | 800 | 4.5 | FWA-35A21F |
| | | 40 | 100 | 1000 | 5.1 | FWA-40A21F |
| 21 x 51 mm (¹⅔₁₀″ x 2″) | 150 V a.c. / V d.c. (UL) | 45 | 130 | 1300 | 6 | FWA-45A21F |
| | (01) | 50 | 170 | 1600 | 7.3 | FWA-50A21F |
| | | 60 | 250 | 2400 | 8 | FWA-60A21F |

Dimensions - in (mm)

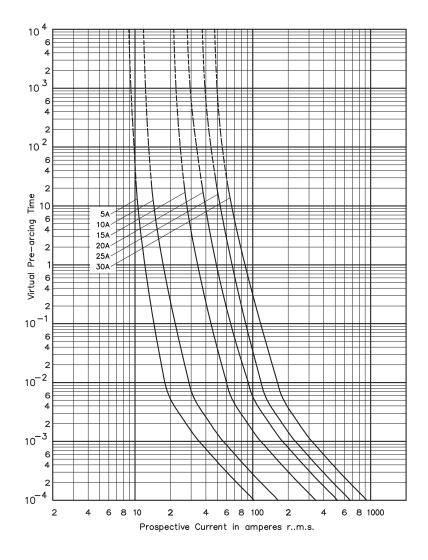


| Amp range | Α | В | C |
|-----------|------------|-------------|-------------|
| 5-30 | 1.5 (38.1) | 0.38 (9.5) | 0.41 (10.3) |
| 35-60 | 2 (50.8) | 0.63 (15.9) | 0.81 (20.6) |



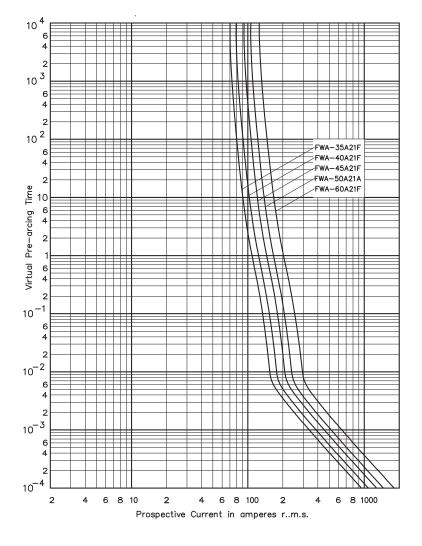
FWA - 10 x 38 mm and 21 x 51 mm, 150 V a.c. / V d.c. (UL), 5 A to 60 A

Time-current curve - 5 A to 30 A



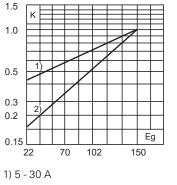
FWA - 10 x 38 mm and 21 x 51 mm, 150 V a.c. / V d.c. (UL), 5 A to 60 A

Time-current curve - 35 A to 60 A



Total clearing l²t

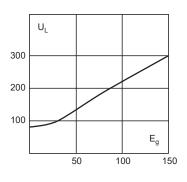
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



2) 35 - 60 A

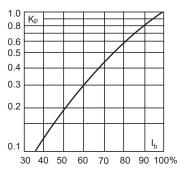
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 720003,5785317 (5-30 A), 5785305 (35-60 A)

FWX - 14 x 51 mm, 250 V a.c. / V d.c. (UL), 1 A to 50 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers rated voltage starters.

Technical data

- Rated voltage: see details in table below
- Rated current: 1 A to 50 A
- Breaking capacity:
- 200 kA RMS Sym. (UL, all ratings)
- 50 kA at 250 V d.c. (UL, 5 A to 30 A only)
- Operating class: aR

Compatible modular fuse holder

• CH14

Standards / Agency information

CE, UL recognised 1-50 A & CSA component acceptance: 5 A to 30 A

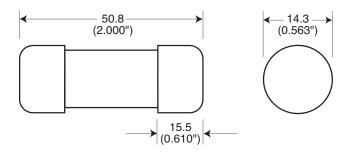
Catalogue numbers



| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 250 V a.c. | Watts loss (W) | Catalogue numbers |
|--------------------------|--------------------|-------------------------|------------|---------------------------|-------------------|----------------------|
| | | 1 | 0.04 | 0.12 | 5.7 | FWX-1A14F |
| | 250 \/ a a // \ | 2 | 0.08 | 0.28 | 8.7 | FWX-2A14F |
| | 250 V a.c. (UL) | 3 | 0.11 | 0.39 | 2.8 | FWX-3A14F |
| | | 4 | 0.1 | 0.35 | 3 | FWX-4A14F |
| | 250 V a.c. / | 5 | 1.6 | 13 | 1.3 | FWX-5A14F |
| 14 x 51mm (%16″ x 2″) | | 10 | 3.6 | 24 | 3.4 | FWX-10A14F |
| ()10 X 2 / | | 15 | 14 | 83 | 3.8 | FWX-15A14F |
| | 250 V d.c. (UL) | 20 | 33 | 200 | 4.6 | FWX-20A14F |
| | | 25 | 58 | 300 | 5.3 | FWX-25A14F |
| | | 30 | 100 | 500 | 5.9 | FWX-30A14F |
| | 250 V a.c. (UL) | 50 | 200 | 1800 | 5.7 | FWX-50A14F |

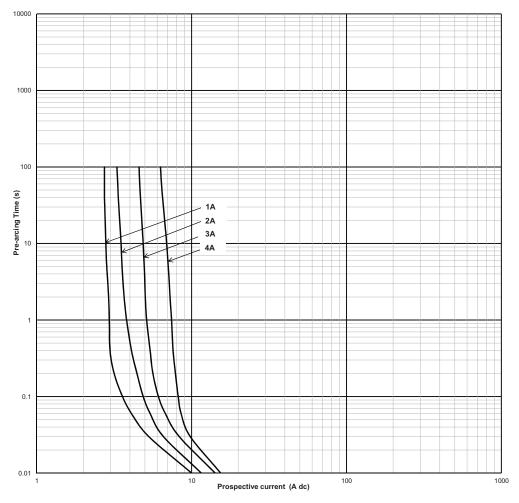
I²t (A² Sec)

Dimensions - mm (in)



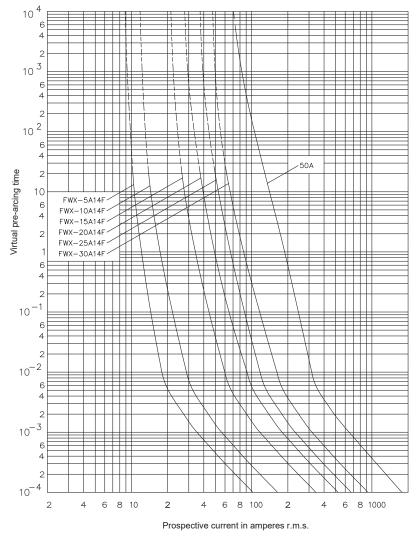
FWX - 14 x 51 mm, 250 V a.c. / V d.c. (UL), 1 A to 50 A

Time-current curve - 1 A to 4 A



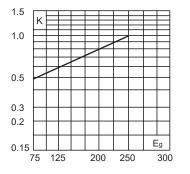
FWX - 14 x 51 mm, 250 V a.c. / V d.c. (UL), 1 A to 50 A





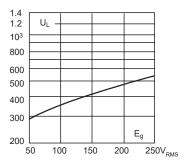
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



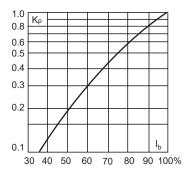
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FWH - 6 x 32 mm, 500 V a.c. (UL), 0.25 A to 30 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 500 V a.c. (UL)
 - 1000 V a.c. (UL, 2 A only)
- 600 V d.c. (UL, 4 A and 5 A only)
- Rated current: 0.25 A to 30 A
- Breaking capacity:
 - 50 kA (0.25 A to 20 A)
 - 20 kA (25 A to 30 A, tested at PF = 76%)
 - 50 kA at 600 V d.c. (UL 2 A and 5 A only)
- Operating class: aR

Standards / Agency information

CE, UL recognised 0.25 A to 30 A including 2 A at 1000 V a.c., CSA component Acceptance: 0.25 A to 7 A

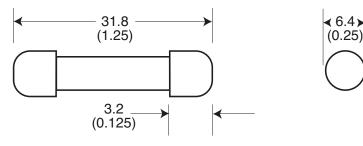
Catalogue numbers



| | | | I ² t (A ² Sec) | | | |
|----------------|------------------------------|-------------------------|---------------------------------------|---------------------------|-------------------|----------------------|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 500 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 0.25 | 0.01 | 0.05 | 2.7 | FWH250A6F |
| | 500 V a.c. (UL) | 0.5 | 0.05 | 0.25 | 1.2 | FWH500A6F |
| | | 1 | 0.4 | 2 | 1.7 | FWH-001A6F |
| | 1000 V a.c. (UL) | 2 | 1.3 | 3.5 | 3.2 | FWH-002A6F |
| | 500 V a.c. (UL) | 3.15 | 3.1 | 7.7 | 2.9 | FWH-3-15A6F |
| | 500 V a.c. / 600 V d.c. (UL) | 4 | 8.4 | 22 | 2.4 | FWH-004A6F |
| | | 5 | 15 | 40 | 2.1 | FWH-005A6F |
| 6 x 32 mm | | 6.3 | 36 | 90 | 2.3 | FWH-6-30A6F |
| (¼″ x 1¼″) | | 7 | 50 | 125 | 2.5 | FWH-007A6F |
| | | 10 | 9.9 | 139 | 2.86 | FWH5-010A6F |
| | | 12.5 | 20 | 60 | 3.53 | FWH5-12-5A6F |
| | 500 V a.c. (UL) | 15 | 44 | 146 | 3.08 | FWH5-015A6F |
| | | 16 | 48 | 177 | 4.48 | FWH5-016A6F |
| | | 20 | 75 | 259 | 4.26 | FWH5-020A6F |
| | | 25 | 126 | 345 | - | FWH-025A6F |
| | | 30 | 145 | 430 | - | FWH-030A6F |

12+ / A2 Coo)

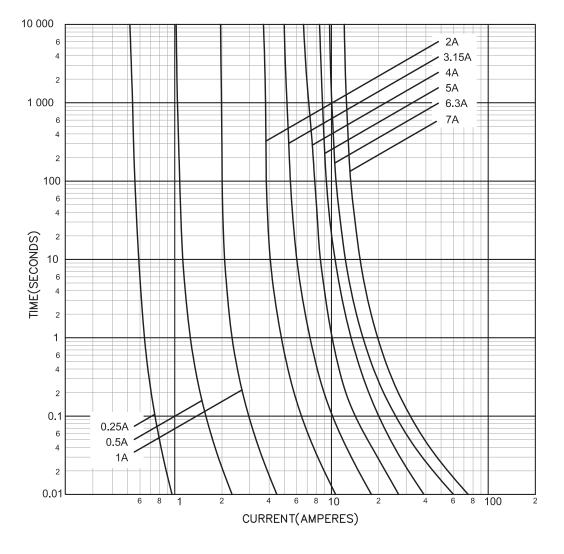
Dimensions mm (in)



Data sheets: 720038, 5785256 (0.25-7A), 50955 (10-30 A)

FWH - 6 x 32 mm, 500 V a.c. (UL), 0.25 A to 30 A

Time-current curve - 0.25 A to 7 A



FWH - 14 x 51 mm, 500 V a.c. / V d.c. (UL), 1 A to 30 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 500 V a.c. (UL, all ratings)
 - 500 V d.c. (UL, 5 A to 30 A only)
- Rated current: 1 A to 30 A
- Breaking capacity:
 - 200 kA RMS Sym. all ratings
 - 50 kA at 500 V d.c. (5 A to 30 A only)
- Operating class: aR
- Compatible modular fuse holder
- CH14

Standards / Agency information

CE, UL Recognised 1 A to 30 A & CSA Component Acceptance: 5 A to 30 A

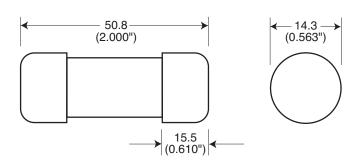


Catalogue numbers

I²t (A² Sec)

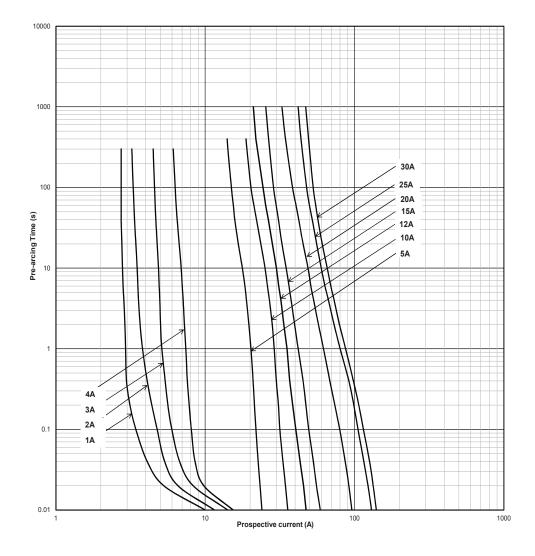
| | | | Ift (Af Sec) | | | |
|--|--------------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 500 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 1 | 0.04 | 0.41 | 5.7 | FWH-1A14F |
| | E00 \/ a a // \ | 2 | 0.08 | 0.11 | 8.7 | FWH-2A14F |
| | 500 V a.c.(UL) | 3 | 0.11 | 0.26 | 2.8 | FWH-3A14F |
| | | 4 | 0.1 | 0.23 | 3 | FWH-4A14F |
| | | 5 | 2 | 7 | 1.5 | FWH-5A14F |
| 14 x 51 mm | | 6 | 2 | 7 | 1.5 | FWH-6A14F |
| (⁹ / ₁₆ " x 2") | | 10 | 4 | 15 | 4 | FWH-10A14F |
| | | 12 | 7 | 25 | 4.3 | FWH-12A14F |
| | 500 V a.c. / V d.c. (UL) | 15 | 10 | 40 | 5.5 | FWH-15A14F |
| | | 20 | 26 | 100 | 6.5 | FWH-20A14F |
| | | 25 | 49 | 200 | 7 | FWH-25A14F |
| | | 30 | 58 | 240 | 9 | FWH-30A14F |
| | | | | | | |

Dimensions mm (in)



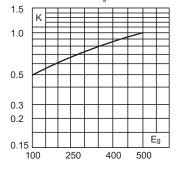
FWH - 14 x 51 mm, 500 V a.c. / V d.c. (UL), 1 A to 30 A

Time-current curve - 1 A to 30 A



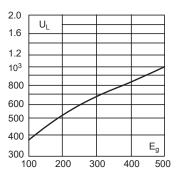
Total clearing l²t

The total clearing l²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



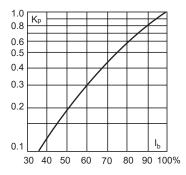
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



FWC - 10 x 38 mm, 600-700 V a.c. / 700 V d.c. (UL), 1 A to 32A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 700 V a.c. / V d.c. (UL, 1 A to 4 A)
 - 600 V a.c. (UL, 6 A to 32 A), 700 V d.c. (UL, 6 A to 25 A)
- Rated current: 1 A to 32 A
- Breaking capacity:
 - 200 kA RMS Sym. at 600 V a.c. (6 A to 32 A)
 - 200 kA RMS Sym. at 700 V a.c. (1 A to 4 A)
 - 10 kA DC at 700 V d.c. (1 A to 25 A)
- Operating class: aR

Standards / Agency information

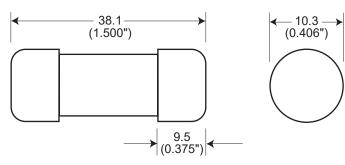
CE, UL Recognised: 6 A to 32 A

Catalogue numbers



| | | | I ² t (A ² Sec) | | | |
|--|-----------------------------|-------------------------|---------------------------------------|---------------------------|-------------------|----------------------|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 600 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 1 | 0.2 | 1.2 | 0.5 | FWC-1A10F |
| | 700 V a.c. / V d.c. (UL) | 2 | 0.5 | 3 | 1.2 | FWC-2A10F |
| | 700 v a.c. / v u.c. (OL) | 3 | 1.6 | 11 | 1.5 | FWC-3A10F |
| | | 4 | 5.2 | 32 | 1.5 | FWC-4A10F |
| | | 6 | 4 | 30 | 1.5 | FWC-6A10F |
| 40.00 | | 8 | 6 | 50 | 2 | FWC-8A10F |
| 10 x 38 mm (¹³ / ₃₂ " x 1½") | | 10 | 9 | 70 | 2.5 | FWC-10A10F |
| () 52 / 1 / 2 / | 600 V a.c./ 700 V d.c. (UL) | 12 | 15 | 120 | 3 | FWC-12A10F |
| | | 16 | 25 | 150 | 3.5 | FWC-16A10F |
| | | 20 | 34 | 260 | 4.8 | FWC-20A10F |
| | | 25 | 60 | 390 | 6 | FWC-25A10F |
| | 600 \/ a a // \ | 30 | 95 | 600 | 7.5 | FWC-30A10F |
| | 600 V a.c. (UL) | 32 | 95 | 600 | 7.5 | FWC-32A10F |

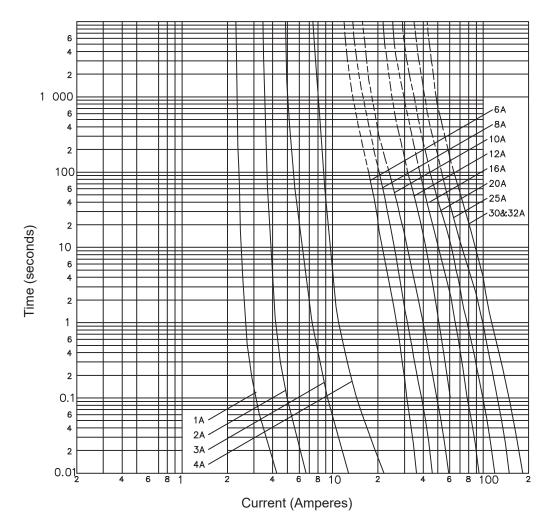
Dimensions - mm (in)



Data sheets: 720011, 5785306

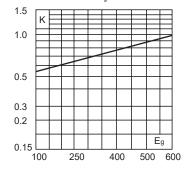
FWC - 10 x 38 mm, 600-700 V a.c. / 700 V d.c. (UL), 1 A to 32A

Time-current curve - 1 A to 32 A



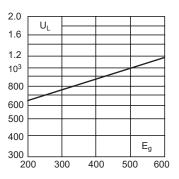
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



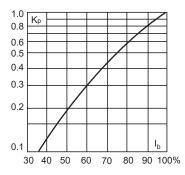
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FWP - 10 x 38 mm, gR, 690 V a.c. (IEC), 4 A to 32 A

Specifications

Description

The 10 \times 38 mm cylindrical, class gR fuse links are used to protect AC/DC Drives and semi-conductors.

Technical data

- Rated voltage: see details in table below
- Rated current: 4 A to 32 A
- Breaking capacity: 200 kA a.c.
- Operating class: gR

Compatible fuse holder

CHM

Standards / Agency information

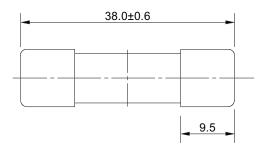
IEC 60269-4, UL 248-13

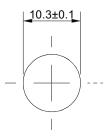
Catalogue numbers



| | | | | I²t (A² Sec) | | | |
|----------------|-------------------|---|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link size | Туре | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 690 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 690 V a.c. (IEC) | 4 | 5.6 | 17 | 2.05 | FWP-4G10F |
| | | 500 V d.c (UL) | 6 | 16 | 48 | 3 | FWP-6G10F |
| | | ^{or} 690 V a.c. (IEC) 700 V a.c. (UL) | 8 | 4.3 | 38 | 1.68 | FWP-8G10F |
| | | | 10 | 6.6 | 59 | 2.09 | FWP-10G10F |
| 10 x 38 mm | Without indicator | | 12 | 9.6 | 84 | 2.99 | FWP-12G10F |
| | | | 16 | 17 | 150 | 4.27 | FWP-16G10F |
| | | | 20 | 23.5 | 200 | 5.35 | FWP-20G10F |
| | | | 25 | 60.2 | 512 | 5.52 | FWP-25G10F |
| | | | 32 | 94 | 800 | 7.43 | FWP-32G10F |

Dimensions (mm)

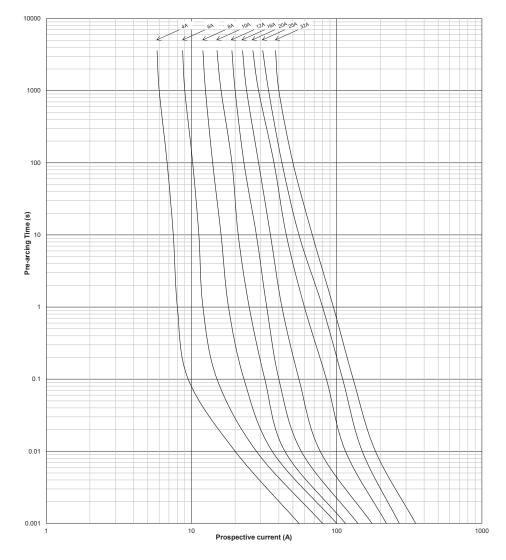




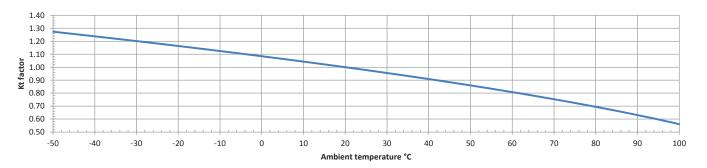
Data sheet: 10467

FWP - 10 x 38 mm, gR, 690 V a.c., 4 A to 32 A

Time-current curve - 4 A to 32 A



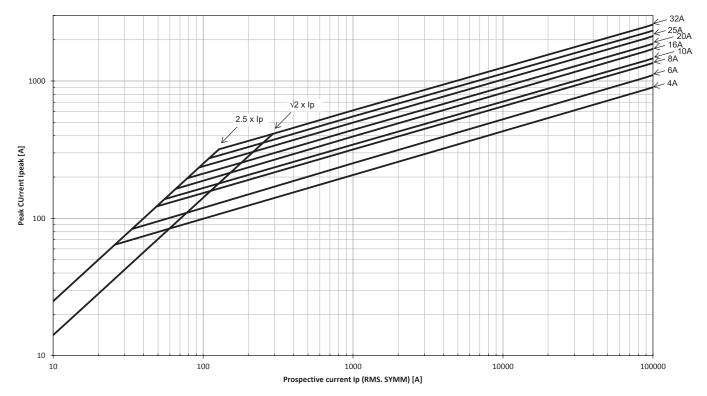
Ambient temperature



FWP - 10 x 38 mm, gR, 690 V a.c., 4 A to 32 A

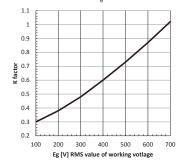
Cut-off curve- 2 A to 32 A

Peak let through current (Ipeak) vs. Prospective Short Circuit Current in SYMM. RMS value, 50Hz / p.f. > 0.15



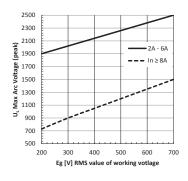
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



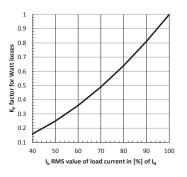
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



Data sheet: 10467

FWP - 14 x 51 mm, gR, 690 V a.c. (IEC), 4 A to 50 A

Specifications

Description

The 14 x 51 mm cylindrical, class gR fuse links are used to protect AC/DC Drives and semi-conductors.

Technical data

- Rated voltage: 690 V a.c. (IEC)
- Rated current: 4 A to 50 A
- Breaking capacity: 200 kA a.c.
- Operating class: gR

Compatible modular fuse holder

• CH14

Standards / Agency information

IEC 60269-4, UL 248-13

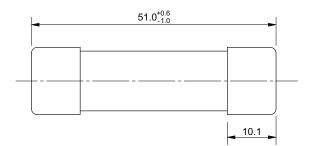
Catalogue numbers



| | | | | I ² t (A ² Sec) | | | |
|----------------|-------------------|------------------|-------------------------|---------------------------------------|---------------------------|-------------------|----------------------|
| Fuse link size | Туре | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 690 V a.c. | Watts loss (W) | Catalogue numbers |
| | | | 4 | 5.6 | 17 | 2.94 | FWP-4G14F |
| | | | 6 | 16 | 48 | 4.2 | FWP-6G14F |
| | | | 8 | 3.8 | 30 | 2 | FWP-8G14F |
| | | | 10 | 5.9 | 47 | 2.52 | FWP-10G14F |
| | | | 12 | 8.4 | 68 | 3.54 | FWP-12G14F |
| | Without indicator | 690 V a.c. (IEC) | 16 | 15 | 120 | 4.83 | FWP-16G14F |
| | | | 20 | 27 | 170 | 5.4 | FWP-20G14F |
| | | | 25 | 53 | 333 | 6 | FWP-25G14F |
| | | | 32 | 108 | 679 | 6.93 | FWP-32G14F |
| 14 x 51 mm | | | 40 | 211 | 1331 | 7.52 | FWP-40G14F |
| 14 X 31 IIIII | | | 50 | 350 | 2200 | 9.8 | FWP-50G14F |
| | | | 8 | 3.8 | 30 | 2 | FWP-8G14FI |
| | | | 10 | 5.9 | 47 | 2.52 | FWP-10G14FI |
| | | | 12 | 8.4 | 68 | 3.54 | FWP-12G14FI |
| | | | 16 | 15 | 120 | 4.83 | FWP-16G14FI |
| | With indicator | 690 V a.c. (IEC) | 20 | 27 | 170 | 5.4 | FWP-20G14FI |
| | | | 25 | 53 | 333 | 6 | FWP-25G14FI |
| | | | 32 | 108 | 679 | 6.93 | FWP-32G14FI |
| | | | 40 | 211 | 1331 | 7.52 | FWP-40G14FI |
| | | | 50 | 350 | 2200 | 9.8 | FWP-50G14FI |

12+ (A2 Coo)

Dimensions (mm)

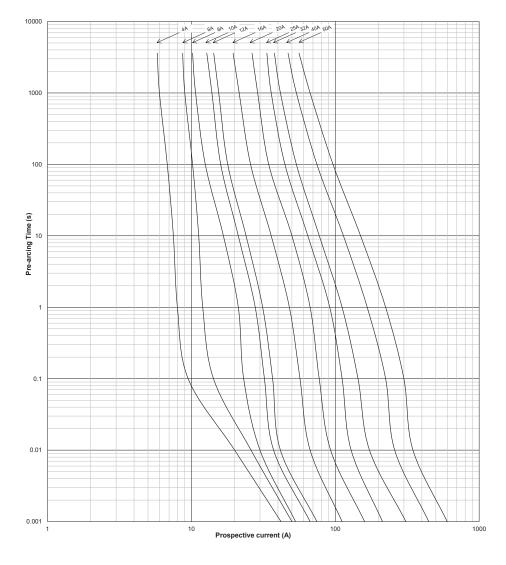




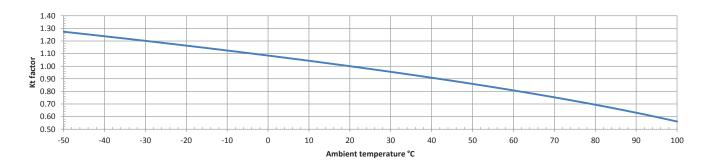
Ø14.3±0.1

FWP - 14 x 51 mm, gR, 690 V a.c., 4 A to 50 A

Time-current curve - 4 A to 50 A



Ambient temperature

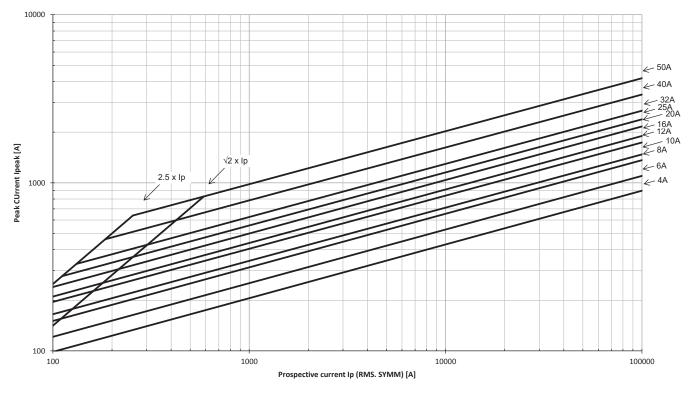


Data sheet: 10468

FWP - 14 x 51 mm, gR, 690 V a.c., 4 A to 50 A

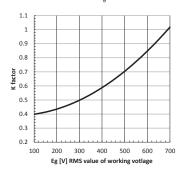
Cut-off curve - 4 A to 50 A

Peak let through current (Ipeak) vs. Prospective Short Circuit Current in SYMM. RMS value, 50Hz / p.f. > 0.15



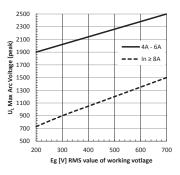
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{α} , (RMS).



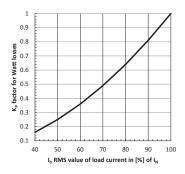
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FWP - 22 x 58 mm, gR, 690 V a.c. (IEC), 20 A to 100 A

Specifications

Description

The 22 x 58 mm cylindrical, class gR fuse links are used to protect AC/DC Drives and semi-conductors.

Technical data

- Rated voltage: 690 V a.c. (IEC)
- Rated current: 20 A to 100 A
- Breaking capacity: 200 kA a.c.
- Operating class: gR

Compatible fuse holder

• CH22

Standards / Agency information

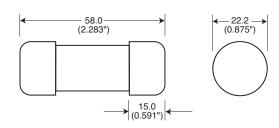
IEC 60269-4, UL 248-13

Catalogue numbers



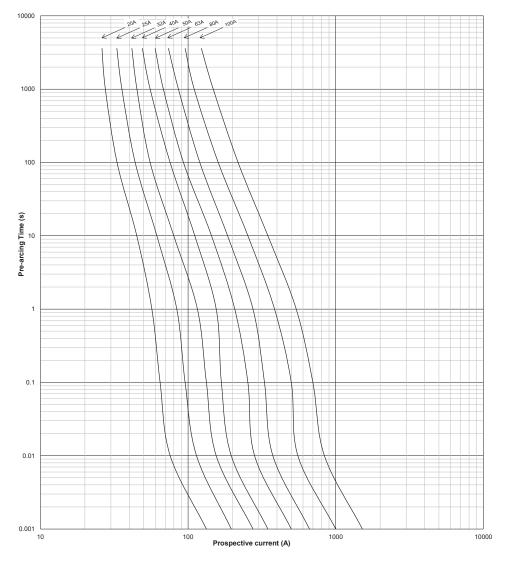
| | | | | I²t (A² Sec) | | | |
|----------------|-------------------|------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link size | Туре | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 690 V a.c. | Watts loss (W) | Catalogue numbers |
| | | | 20 | 24 | 154 | 6.00 | FWP-20G22F |
| | | | 25 | 43 | 274 | 6.65 | FWP-25G22F |
| | | | 32 | 97 | 616 | 9.21 | FWP-32G22F |
| | Without indicator | | 40 | 180 | 899 | 8.24 | FWP-40G22F |
| | without indicator | 690 V a.c. (IEC) | 50 | 273 | 1362 | 11.85 | FWP-50G22F |
| | | | 63 | 516 | 2575 | 13.80 | FWP-63G22F |
| | | | 80 | 1092 | 5448 | 14.00 | FWP-80G22F |
| 22 x 58 mm | | | 100 | 2065 | 10,300 | 17.70 | FWP-100G22F |
| 22 X 38 IIIII | | | 20 | 24 | 154 | 6.00 | FWP-20G22FI |
| | | | 25 | 43 | 274 | 6.65 | FWP-25G22FI |
| | | | 32 | 97 | 616 | 9.21 | FWP-32G22FI |
| | With indicator | | 40 | 180 | 899 | 8.24 | FWP-40G22FI |
| | with indicator | 690 V a.c. (IEC) | 50 | 273 | 1362 | 11.85 | FWP-50G22FI |
| | | | 63 | 516 | 2575 | 13.80 | FWP-63G22FI |
| | | | 80 | 1092 | 5448 | 14.00 | FWP-80G22FI |
| | | | 100 | 2065 | 10,300 | 17.70 | FWP-100G22FI |

Dimensions - mm (in)

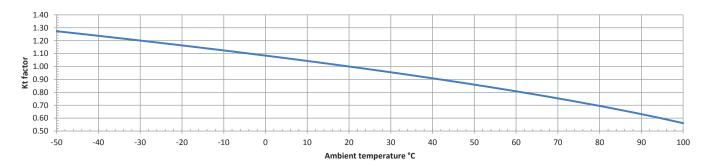


FWP - 22 x 58 mm, gR, 690 V a.c., 20 A to 100 A

Time-current curve - 20 A to 100 A



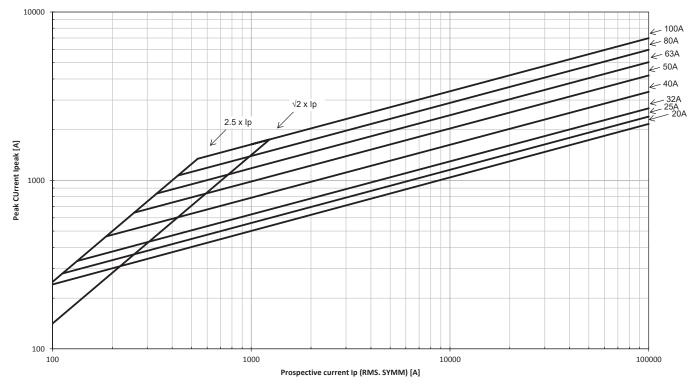
Ambient temperature



FWP - 22 x 58 mm, gR, 690 V a.c., 20 A to 100 A

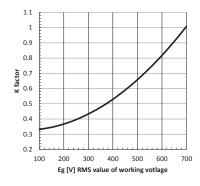
Cut-off curve - 20 A to 100 A

Peak let through current (Ipeak) vs. Prospective Short Circuit Current in SYMM. RMS value, 50Hz / p.f. > 0.15



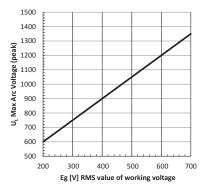
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



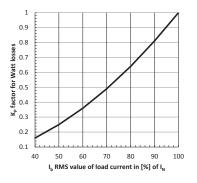
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheet: 10469

FWP - 14 x 51 mm, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 1 A to 63 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Available with or without striker.

Technical data

- Rated voltage:
 - Without striker: see table
 - With striker: 700 V a.c. / 600 V d.c. (UL)
- Rated current:
 - Without striker: 1 A to 63 A
 - With striker: 1 A to 50 A
- Breaking capacity:
 - 200 kA RMS Sym.
 - 50 kA at 700 V d.c. (5 A to 50 A non striker version)
 - 600 V d.c. for striker version
- Operating class: aR

Compatible modular fuse holder

• CH14

Standards / Agency information

CE, UL recognised & CSA component acceptance for versions without striker only, CCC certified 5 A to 50 A

Catalogue numbers

| | | | | I²t (A² Sec) | | _ | |
|---|----------------|------------------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link type | Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 700 V a.c. | Watts loss (W) | Catalogue numbers |
| | | | 1 | 0.04 | 0.41 | 5.7 | FWP-1A14F |
| | | 700 V a.c. (UL) | 2 | 0.08 | 0.11 | 8.7 | FWP-2A14F |
| | | 700 V a.C. (UL) | 2 3 | 0.11 | 0.26 | 2.8 | FWP-3A14F |
| Without striker 14 x 51 m (9/16" x 2 | | | 4 | 0.1 | 0.23 | 3 | FWP-4A14F |
| | | | 5 | 2 | 11 | 1.5 | FWP-5A14F |
| | | | 6 | 2 | 11 | 1.5 | FWP-6A14F |
| | | | 10 | 4 | 22 | 4 | FWP-10A14F |
| | | | 15 | 10 | 70 | 5.5 | FWP-15A14F |
| | (0)10 X 2 / | 700 V a.c. / 700 V d.c. (UL) | 20 | 26 | 180 | 6.5 | FWP-20A14F |
| | | 690 V a.c. (IEC) | 25 | 49 | 320 | 7 | FWP-25A14F |
| | | 000 V 4.0. (120) | 30 | 58 | 400 | 9 | FWP-30A14F |
| | | | 32 | 68 | 600 | 8 | FWP-32A14F |
| | | | 40 | 84 | 750 | 8 | FWP-40A14F |
| | | | 50 | 200 | 1800 | 9 | FWP-50A14F |
| | | | 63 | 390 | 2516 | 10 | FWP-63A14F |
| | | | 10 | 4 | 32 | 2 | FWP-10A14FI |
| | | | 15 | 7 | 63 | 4 | FWP-15A14FI |
| | | | 20 | 26 | 234 | 4 | FWP-20A14FI |
| With striker | 14 x 51 mm | 700 V a.c. / 600 V d.c. (UL) | 25 | 42 | 378 | 4 | FWP-25A14FI |
| VVIUI SUIKEI | (9/16" x 2") | 700 v a.c. / 600 v u.c. (UL) | 30 | 52 | 468 | 6 | FWP-30A14FI |
| | | | 32 | 68 | 600 | 8 | FWP-32A14FI |
| | | | 40 | 84 | 750 | 8 | FWP-40A14FI |
| | | | 50 | 200 | 1800 | 9 | FWP-50A14FI |



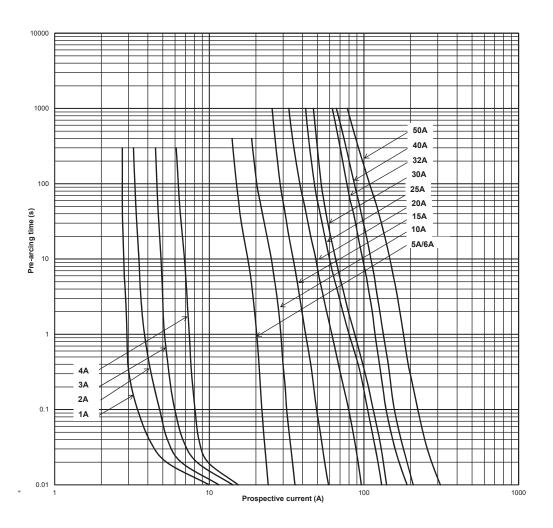
Data sheets: 720025, 5781724 fuses without striker; 5785566 fuses with striker, 5785626 (63 A)

FWP - 14 x 51 mm, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 1 A to 50 A

Dimensions - mm (in)



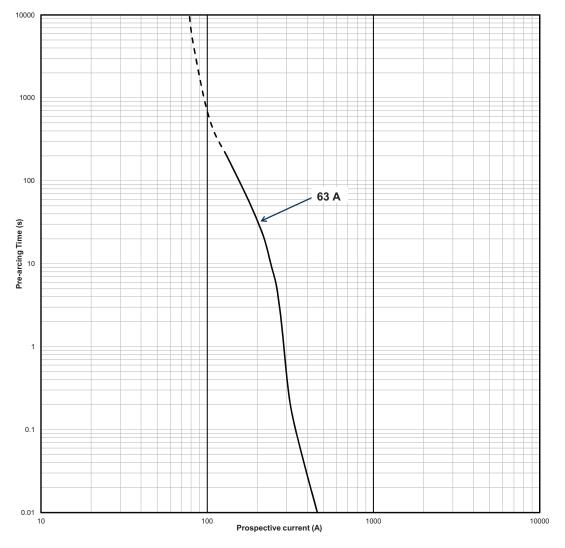
Time-current curve - 1 A to 50 A



Data sheets: 720025, 5781724 fuses without striker; 5785566 fuses with striker, 5785626 (63 A)

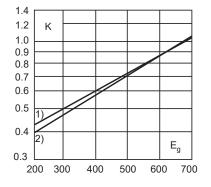
FWP - 14 x 51 mm, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 1 A to 50 A

Time-current curve - 63 A



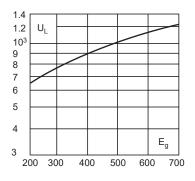
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{α} , (RMS).



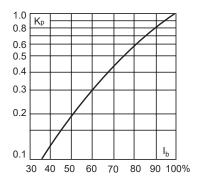
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FWP - 22 x 58 mm, 700 V a.c. / V d.c. (UL), 20 A to 100 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Available with or without striker.

Technical data

- Rated voltage: 700 V a.c. / V d.c. (UL)
- Rated current: 20 A to 100 A
- Breaking capacity:
 - 200 kA RMS Sym.
 - 50 kA at 700 V d.c., t/c 5 ms
- Operating Class: aR

Compatible modular fuse holder

• CH22

Standards / Agency information

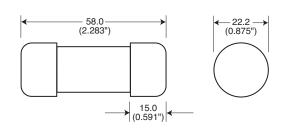
CE, UL Recognised, CSA Component Acceptance for versions without striker only, CCC certified

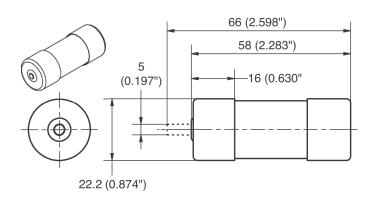
Catalogue numbers

| 8 | | 710 | E |
|---|----|----------|-------------|
| i | 2 | BUSSMANN | FWP-80A22Fa |
| 1 | - | MA SIS | 30AS |
| | -1 | ISS | VP-8 |
| | П | BL | F |

| | | | | l²t (A² Sec) | | | |
|-----------------|--|-----------------------------|-------------------------|--------------|---------------------------|-------------------|----------------------|
| Fuse link type | Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 700 V a.c. | Watts loss (W) | Catalogue numbers |
| | | | 20 | 23 | 330 | 5 | FWP-20A22F |
| | | | 25 | 37 | 530 | 6 | FWP-25A22F |
| | | | 32 | 55 | 780 | 8 | FWP-32A22F |
| | 22 x 58 mm | 700\//700\/_d/UU\ | 40 | 68 | 960 | 12 | FWP-40A22F |
| Without striker | (⁷ /8" x 2 ⁹ /32") | 700 V a.c./ 700 V d.c. (UL) | 50 | 155 | 2200 | 12.5 | FWP-50A22F |
| | | | 63 | 280 | 4000 | 15 | FWP-63A22F |
| | | | 80 | 550 | 7800 | 15 | FWP-80A22F |
| | | | 100 | 1100 | 15,600 | 16.5 | FWP-100A22F |
| | | | 20 | 19 | 260 | 5 | FWP-20A22FI |
| | | | 25 | 34 | 410 | 6 | FWP-25A22FI |
| | | | 32 | 53.5 | 605 | 8 | FWP-32A22FI |
| 14/51 × 1 | 22 x 58 mm | | 40 | 68 | 750 | 9 | FWP-40A22FI |
| With striker | (⁷ /8" x 2 ⁹ / ₃₂ ") | 700 V a.c./ 700 V d.c. (UL) | 50 | 135 | 1600 | 9.5 | FWP-50A22FI |
| | | | 63 | 280 | 3080 | 11 | FWP-63A22FI |
| | | | 80 | 600 | 6600 | 13.5 | FWP-80A22FI |
| | | | 100 | 1100 | 12,500 | 16 | FWP-100A22FI |

Dimensions - mm (in), without striker



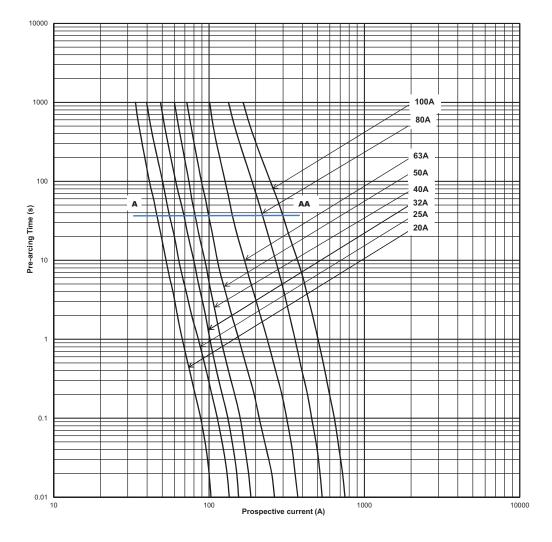


Dimensions - mm (in), with striker

Data sheets: 720026, 5781723

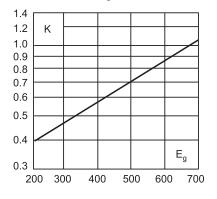
FWP - 22 x 58 mm, 700 V a.c. / V d.c. (UL), 20 A to 100 A

Time-current curve - 20 A to 100 A



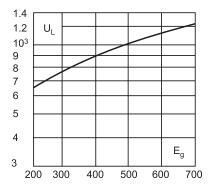
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



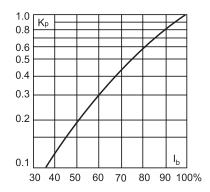
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



FWK - 20 x 127 mm and 25 x 146 mm, 750 V d.c. (IEC), 5 A to 60 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical Data

- Rated voltage: 750 V d.c. (IEC)
- Rated current:
- 5 A to 30 A (20 x 127 mm)
- 35 A to 60 A (25 x 146 mm)
- Breaking capacity: 50 kA at 750 V d.c., L/R 10-15ms
- Operating class: gG

Standards / Agency information:

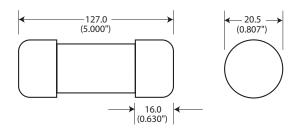
CE

Catalogue numbers

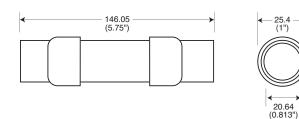


| | | | I ² t (A ² Sec) | | | | |
|---|------------------|-------------------------|---------------------------------------|---------------------------|-------------------|----------------------|--|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 750 V d.c. | Watts loss (W) | Catalogue numbers | |
| | | 5 | 8.5 | 16 | 6.7 | FWK-5A20F | |
| | | 8 | 50 | 100 | 8.8 | FWK-8A20F | |
| 20 x 127 mm 75 (¹³ /16″ x 5″) 75 | | 10 | 95 | 200 | 8.5 | FWK-10A20F | |
| | 750 V d.c. (IEC) | 15 | 100 | 240 | 5 | FWK-15A20F | |
| () 10 / 10 / | | 20 | 125 | 315 | 7.8 | FWK-20A20F | |
| | | 25 | 400 | 1100 | 6.5 | FWK-25A20F | |
| | | 30 | 800 | 2600 | 6.5 | FWK-30A20F | |
| | | 35 | 1300 | 4600 | 6 | FWK-35A25F | |
| 25 x 146 mm | | 40 | 1600 | 5300 | 6.8 | FWK-40A25F | |
| (1" x 5 ¾") | 750 V d.c. (IEC) | 50 | 3100 | 12,000 | 7.3 | FWK-50A25F | |
| | | 60 | 5900 | 24,000 | 7.7 | FWK-60A25F | |

Dimensions - mm (in), 20 x 127 mm, 5 A to 30 A

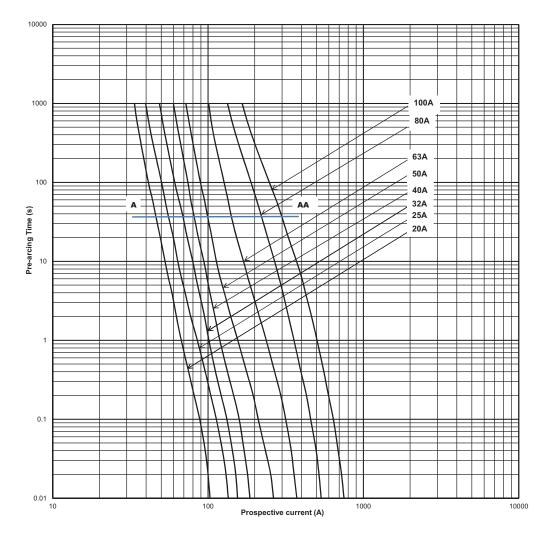


Dimensions - mm (in), 25 x 146 mm, 35 A to 60 A



FWK - 20 x 127 mm and 25 x 146 mm, 750 V d.c. (IEC), 5 A to 60 A

Time-current curve - 20 A to 100 A



FWJ - 14 x 67 mm, 1000 V a.c. / 800 V d.c. (UL), 20 A to 30 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage: 1000 V a.c. / 800 V d.c.
- Rated current: 20 A to 30 A
- Breaking capacity:
 - 25kA RMS Sym
 - 50 kA at 800 V d.c.
- Operating class: aR

Standards / Agency information

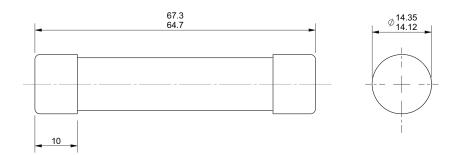
CE, UL Recognised



Catalogue numbers

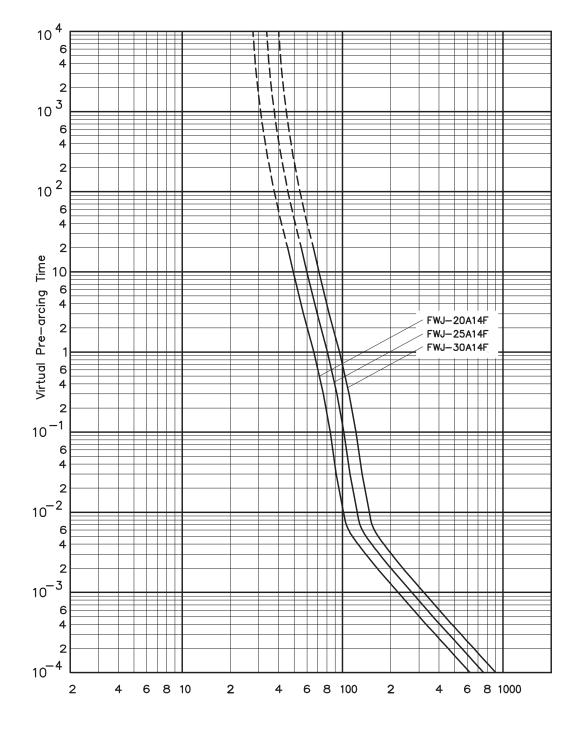
| | | | I²t (A² Sec) | | | |
|---|------------------------------|----|--------------|----------------------------|-------------------|----------------------|
| Fuse link size | Fuse link size Rated voltage | | Pre-arcing | Clearing at 1000 V a.c. | Watts loss (W) | Catalogue numbers |
| | | 20 | 25 | 220 | 9 | FWJ-20A14F |
| 14 x 67 mm (⁹ /16″ x 2 ⁵ /8″) | 1000 V a.c./ 800 V d.c. (UL) | 25 | 33 | 350 | 11 | FWJ-25A14F |
| | | 30 | 52 | 450 | 14 | FWJ-30A14F |

Dimensions (mm)



FWJ - 14 x 67 mm, 1000 V a.c. / 800 V d.c. (UL), 20 A to 30 A

Time-current curve - 20 A to 30 A



FWL - 20 x 127 mm, 1200 V a.c. / 1000 V d.c. (IEC), 20 A to 30 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Available with indicator.

Technical data

- Rated voltage: 1200 V a.c. / 1000 V d.c. (IEC)
- Rated current: 20 A, 25 A and 30 A
- Breaking capacity:
 - 50 kA RMS Sym
 - 50 kA at 1000 V d.c.
- Operating Class: gR

Standards / Agency information

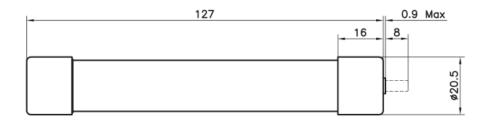
CE

Catalogue numbers



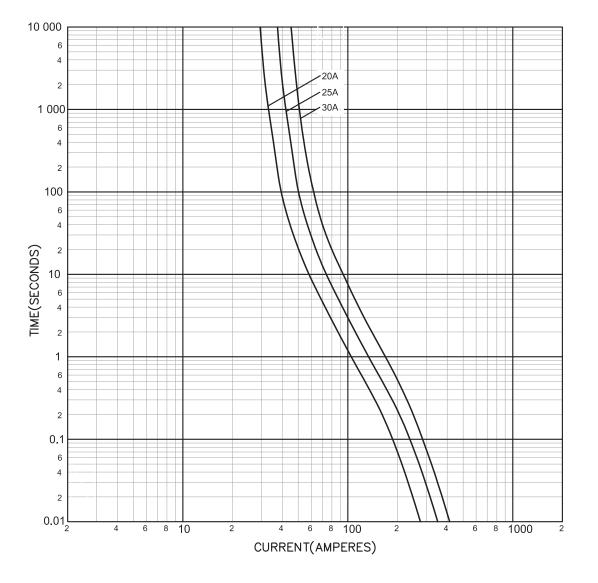
| | | | | | | Catalogue numbers | | |
|--|---------------|-------------------------|------|------|-------------------|-------------------|----------------|--|
| Fuse link size | Rated voltage | Rated current (Amps) | | | Watts loss (W) | Without indicator | With indicator | |
| | | 20 | 675 | 1550 | 5.9 | FWL-20A20F | FWL-20A20FI | |
| 20 x 127 mm (¹³ / ₁₆ " x 5") | | 25 | 1200 | 2760 | 6.5 | FWL-25A20F | FWL-25A20FI | |
| (-718 × 3) | | 30 | 1850 | 4300 | 7.5 | FWL-30A20F | FWL-30A20FI | |

Dimensions (mm)



FWL - 20 x 127 mm, 1200 V a.c. / 1000 V d.c. (IEC), 20 A to 30 A

Time-current curve - 20 A to 30 A



FWS - 20 x 127 mm, 1400 - 2000 V a.c. / 1000 V d.c. (IEC), 2 A to 15 A

Specifications

Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Available with indicator.

Technical Data

- Rated voltage:
 - 2000 V a.c. / 1000 V d.c. (IEC, 2 A to 8 A)
- 1400 V a.c. / 1000 V d.c. (IEC, 10 A to 15 A)
- Rated current: 2 A to 15 A
- Breaking capacity:
 - 50 kA RMS Sym.
 - 50 kA at 1000 V d.c. (2 A to 10 A only)
- Operating class: gR

Standards/Agency Information

CE

Catalogue numbers



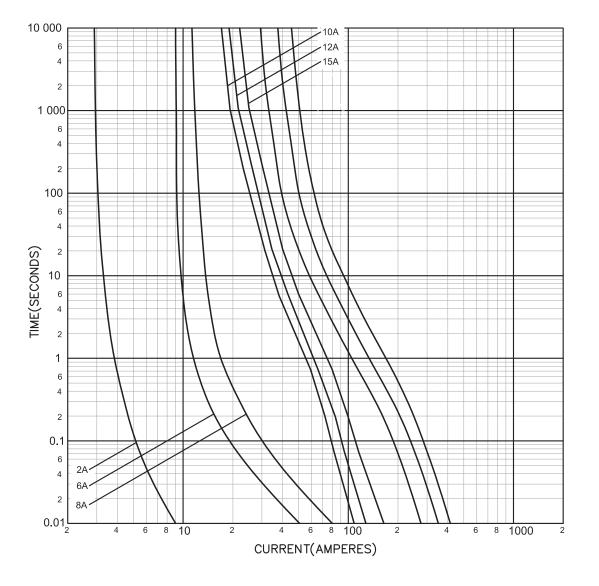
| | | I²t (A² Sec) | | | | Catalogue numbers | |
|---|-------------------------------|-------------------------|------------|----------------------------|-------------------|----------------------|----------------|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1000 V a.c. | Watts loss (W) | Without indicator | With indicator |
| | 2000 V a.c./2000 V d.c.(IEC) | 2 | 0.8 | 2.4 | 4.4 | FWS-2A20F | FWS-2A20FI |
| | 2000 V a.c./1000 V d.c.(IEC) | 6 | 27 | 81 | 6.7 | FWS-6A20F | FWS-6A20FI |
| 20 x 127 mm | | 8 | 64 | 192 | 7.6 | FWS-8A20F | FWS-8A20FI |
| (¹³ / ₁₆ " x 5") | | 10 | 118 | 277 | 3 | FWS-10A20F | FWS-10A20FI |
| | 1400 V a.c./ 1000 V d.c.(IEC) | 12 | 170 | 380 | 3.4 | FWS-12A20F | FWS-12A20FI |
| | | 15 | 209 | 500 | 5 | FWS-15A20F | FWS-15A20FI |

Dimensions (mm)

| - | 127 | | 0.9 | Max |
|---|----------|----|-----|-----|
| | | 16 | _8 | |
| | <u> </u> | | | |
| | | | h | 0.5 |
| | | | JJ | \$2 |
| | | |) | |

FWS - 20 x 127 mm, 1400 - 2000 V a.c. / 1000 V d.c. (IEC), 2 A to 15 A

Time-current curve - 2 A to 15 A



170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

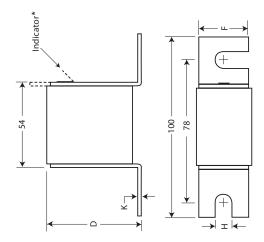
Technical data

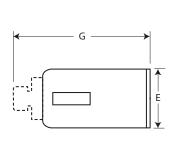
- Rated voltage:
 - 690 V a.c. (IEC)
- 700 V a.c. (UL, size 000; size 00 100 A to 400 A)
- 700 V d.c. (UL, size 000)
- Rated current: 10 A to 400 A
- Breaking capacity:
 - 200 kA RMS Sym
 - 50 kA at 700 V d.c. (size 000 only)
- Operating class
- gR size 000 (10 A to 63 A), size 00 (25 A to 80 A)
- aR size 000 (>63 A), size 00 (>80 A)

Standards/Agency Information

CE, Designed and tested to IEC 60269 part 4. UL Recognised/CSA Component Acceptance on Size 000. CCC approved

Dimensions (mm)





* Indication for Size 00 fuses is a red pin.

The dotted line illustrates the $\ensuremath{\mathsf{Type}}\,\ensuremath{\mathsf{T}}$ indicator fuse link.

Type -U/80, -/80, -TN/80

| | · · | | - | | | | _ |
|------|-----|----|----|----|----|---|---|
| Size | D | Е | F | G | Н | К | |
| 000 | 40 | 21 | 20 | 51 | 8 | 2 | |
| 00 | 51 | 30 | 28 | 67 | 10 | 2 | |



Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

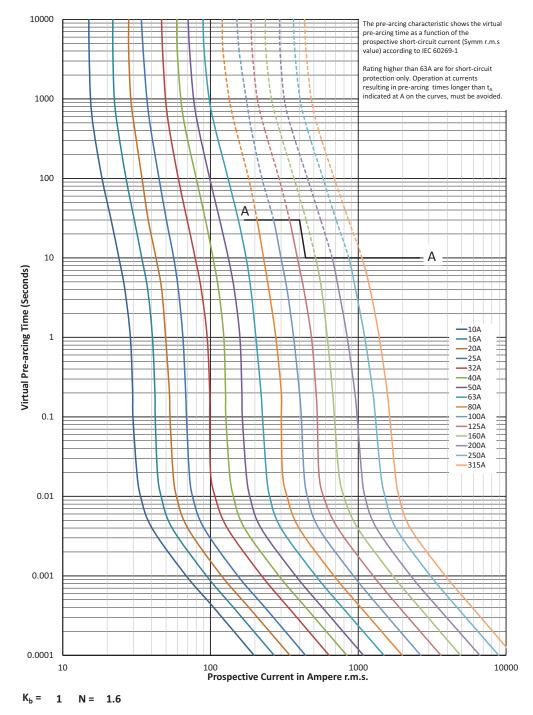
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Catalogue numbers

| | | | I²t (A² Sec) | | | | Catalogue number | S | |
|------------------------|------------------|-------------------------|--------------|---------------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-Arcing | Clearing at 660 V a.c. | Watts loss (W) | Operating class | -U/80 Without indicator | -/80 Visual indicator | -TN/80 Type T indicator for micro |
| | | 10 | 3.8 | 25.5 | 3 | gR | 170M1308 | 170M1358 | 170M1408 |
| | | 16 | 7.2 | 48 | 5.5 | _ | 170M1309 | 170M1359 | 170M1409 |
| | | 20 | 11.5 | 78 | 7 | | 170M1310 | 170M1360 | 170M1410 |
| | | 25 | 19 | 130 | 9 | | 170M1311 | 170M1361 | 170M1411 |
| | | 32 | 40 | 270 | 10 | | 170M1312 | 170M1362 | 170M1412 |
| | 690 V a.c. | 40 | 69 | 460 | 12 | | 170M1313 | 170M1363 | 170M1413 |
| | (IEC) | 50 | 115 | 770 | 15 | | 170M1314 | 170M1364 | 170M1414 |
| 000 | 700 V a.c. / | 63 | 215 | 1450 | 16 | _ | 170M1315 | 170M1365 | 170M1415 |
| | V d.c. | 80 | 380 | 2550 | 19 | aR | 170M1316 | 170M1366 | 170M1416 |
| | (UL) | 100 | 695 | 4650 | 24 | _ | 170M1317 | 170M1367 | 170M1417 |
| | | 125 | 1250 | 8500 | 28 | _ | 170M1318 | 170M1368 | 170M1418 |
| | | 160 | 2350 | 16,000 | 32 | _ | 170M1319 | 170M1369 | 170M1419 |
| | | 200 | 4200 | 28,000 | 37 | _ | 170M1320 | 170M1370 | 170M1420 |
| | | 250 | 7750 | 51,500 | 42 | _ | 170M1321 | 170M1371 | 170M1421 |
| | | 315 | 12,000 | 80,500 | 53 | | 170M1322 | 170M1372 | 170M1422 |
| | | 25 | 19 | 130 | 6 | gR | | 170M2608 | 170M2658 |
| | | 32 | 28.5 | 195 | 7 | _ | | 170M2609 | 170M2659 |
| 00 | 690 V a.c. | 40 | 50 | 360 | 9 | _ | | 170M2610 | 170M2660 |
| 00 | (IEC) | 50 | 95 | 640 | 10 | | | 170M2611 | 170M2661 |
| | | 63 | 170 | 1200 | 12 | | | 170M2612 | 170M2662 |
| | | 80 | 310 | 2100 | 15 | _ | | 170M2613 | 170M2663 |
| | | 100 | 620 | 4150 | 20 | aR | _ | 170M2614 | 170M2664 |
| | | 125 | 1000 | 6950 | 25 | _ | | 170M2615 | 170M2665 |
| | 690 V a.c. | 160 | 1900 | 13,000 | 30 | _ | | 170M2616 | 170M2666 |
| 00 | (IEC) | 200 | 3400 | 23,000 | 35 | _ | | 170M2617 | 170M2667 |
| 00 | 700 V a.c. | 250 | 6250 | 42,000 | 45 | _ | | 170M2618 | 170M2668 |
| | (UL) | 315 | 10,000 | 68,500 | 55 | _ | | 170M2619 | 170M2669 |
| | | 350 | 13,500 | 91,500 | 60 | _ | | 170M2620 | 170M2670 |
| | | 400 | 18,000 | 125,000 | 70 | _ | | 170M2621 | 170M2671 |

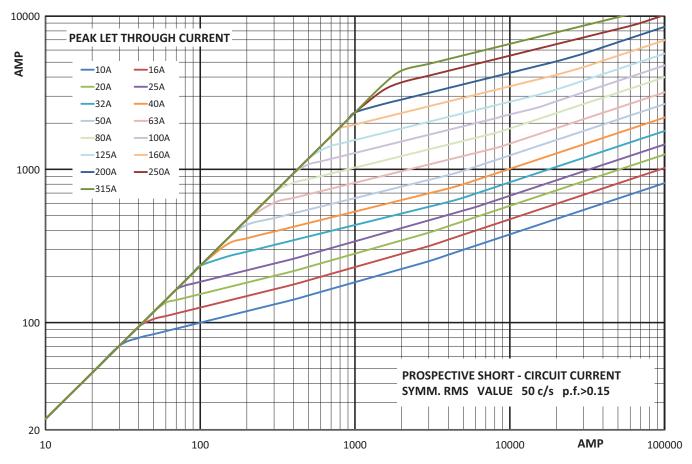
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Time-current curve - Size 000 - 10 A to 315 A



Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

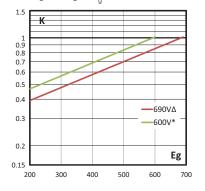
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A



Cut-off curve - Size 000 - 10 A to 315 A

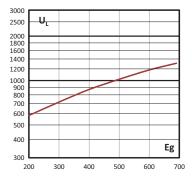
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



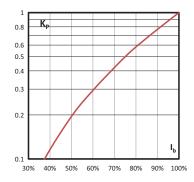
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



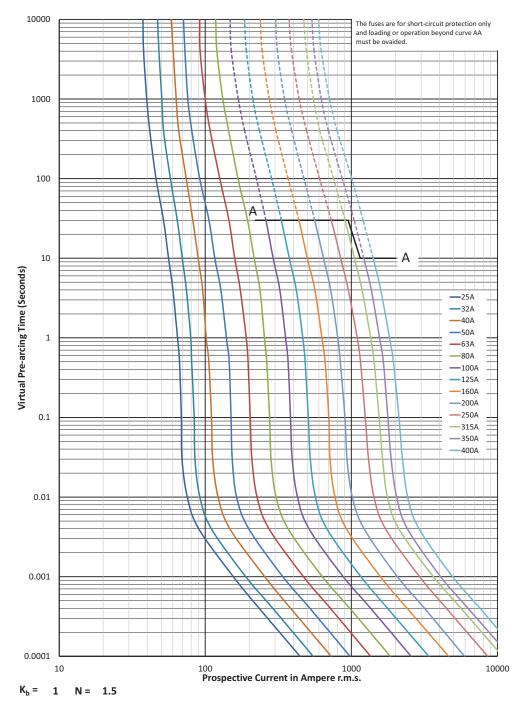
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



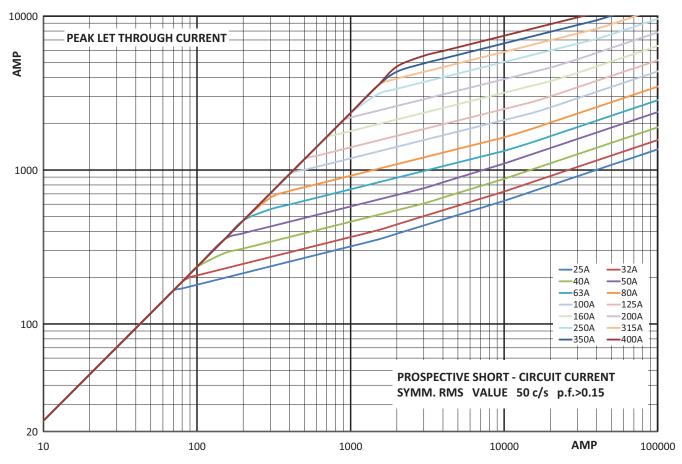
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A

Time-current curve - Size 00, 25 A to 400 A



Data sheets: 170K6310 (Size 000), 170K6312 (Size 00)

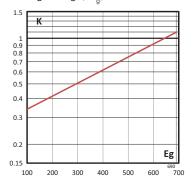
170M - Sizes 000 and 00, DIN 43653, 690 V a.c. (IEC), 700 V a.c. / V d.c. (UL), 10 A to 400 A



Cut-off curve- Size 00 , 25 A to 400 A

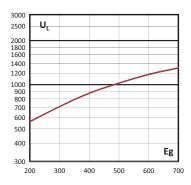
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



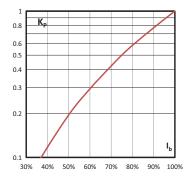
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

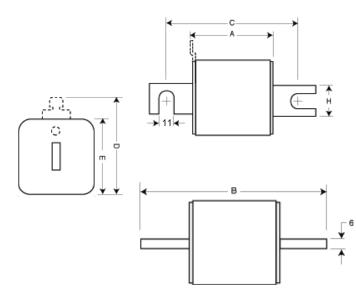
Technical data

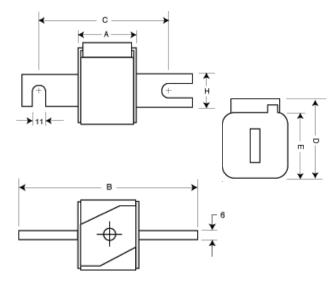
- Rated voltage:
- 690 V a.c. (IEC)
- 700 V a.c. (UL)
- Rated current: 40 A to 2000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance status. CCC except where noted.

Dimensions (mm)





Type -/80, -TN/80, -/110, -TN/110

| Size | А | В | B1 | С | C1 | D^2 | E | Н | |
|------|----|-----|-----|----|-----|-------|----|----|--|
| 1* | 50 | 104 | 134 | 78 | 108 | 58 | 45 | 22 | |
| 1 | 50 | 108 | 138 | 78 | 108 | 66 | 53 | 25 | |
| 2 | 50 | 108 | 138 | 78 | 108 | 75 | 61 | 25 | |
| 3 | 51 | 109 | 139 | 78 | 108 | 90 | 76 | 30 | |

¹ Valid for fuse links type -/110, -TN/110.
 ² Valid for Fuse type -TN/80 and -TN/110.

1mm = 0.0394"

| Туре -КN/80, -КN/110 | | | | | | | | | | |
|----------------------|----|-----|----------------|----|----------------|----|----|----|--|--|
| Size | А | В | B ³ | С | C ³ | D | E | Н | | |
| 1* | 50 | 104 | 134 | 78 | 108 | 59 | 45 | 22 | | |
| 1 | 50 | 108 | 138 | 78 | 108 | 69 | 53 | 25 | | |
| 2 | 50 | 108 | 138 | 78 | 108 | 77 | 61 | 25 | | |
| 3 | 51 | 109 | 139 | 78 | 108 | 92 | 76 | 30 | | |

³ Valid for fuse links type -KN/110. 1mm = 0.0394"



170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Catalogue numbers

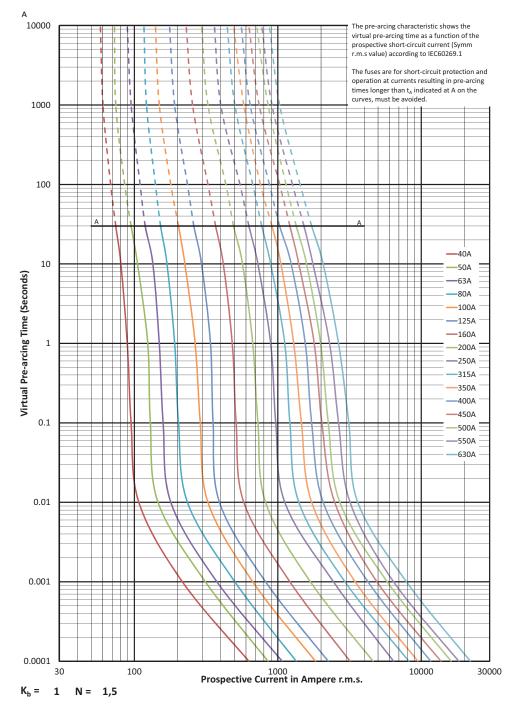
| | | | | Catalogue numbers | | | | | | | |
|------------------------------|--|-------------------------|------------|---------------------------|-------------------|--------------------------|--|--|------------------------------|---|---|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | -/80 Visual indicator | -TN/80 Type T indicator for micro | -KN/80 Type K indicator for micro | -/110 Visual indicator | -TN/110 Type T indicator for micro | -KN/110 Type K indicator for micro |
| | | 40 | 40 | 270 | 9 | 170M3008 | 170M3058 | 170M3108 | 170M3158 | 170M3208 | 170M3258 |
| | | 50 | 77 | 515 | 11 | 170M3009 | 170M3059 | 170M3109 | 170M3159 | 170M3209 | 170M3259 |
| | | 63 | 115 | 770 | 14 | 170M3010 | 170M3060 | 170M3110 | 170M3160 | 170M3210 | 170M3260 |
| | | 80 | 185 | 1250 | 18 | 170M3011 | 170M3061 | 170M3111 | 170M3161 | 170M3211 | 170M3261 |
| | | 100 | 360 | 2450 | 21 | 170M3012 | 170M3062 | 170M3112 | 170M3162 | 170M3212 | 170M3262 |
| | | 125 | 550 | 3700 | 26 | 170M3013 | 170M3063 | 170M3113 | 170M3163 | 170M3213 | 170M3263 |
| | 000.)/ ((E0) | 160 | 1100 | 7500 | 30 | 170M3014 | 170M3064 | 170M3114 | 170M3164 | 170M3214 | 170M3264 |
| 4 × | 690 V a.c. (IEC) | 200 | 2200 | 15,000 | 35 | 170M3015 | 170M3065 | 170M3115 | 170M3165 | 170M3215 | 170M3265 |
| 1* | 700 V a.c. | 250 | 4200 | 28,500 | 40 | 170M3016 | 170M3066 | 170M3116 | 170M3166 | 170M3216 | 170M3266 |
| | (UL) | 315 | 7000 | 46,500 | 50 | 170M3017 | 170M3067 | 170M3117 | 170M3167 | 170M3217 | 170M3267 |
| | | 350 | 10,000 | 68,500 | 55 | 170M3018 | 170M3068 | 170M3118 | 170M3168 | 170M3218 | 170M3268 |
| | | 400 | 15,000 | 105,000 | 60 | 170M3019 | 170M3069 | 170M3119 | 170M3169 | 170M3219 | 170M3269 |
| | | 450 | 21,000 | 140,000 | 65 | 170M3020 | 170M3070 | 170M3120 | 170M3170 | 170M3220 | 170M3270 |
| | | 500 | 27,000 | 180,000 | 70 | 170M3021 | 170M3071 | 170M3121 | 170M3171 | 170M3221 | 170M3271 |
| | | 550 | 34,000 | 230,000 | 75 | 170M3022 | 170M3072 | 170M3122 | 170M3172 | 170M3222 | 170M3272 |
| | | 630 | 48,500 | 325,000 | 80 | 170M3023 | 170M3073 | 170M3123 | 170M3173 | 170M3223 | 170M3273 |
| | | 200 | 1650 | 11,500 | 45 | 170M4008 | 170M4058 | 170M4108 | 170M4158 | 170M4208 | 170M4258 |
| | | 250 | 3100 | 21,000 | 55 | 170M4009 | 170M4059 | 170M4109 | 170M4159 | 170M4209 | 170M4259 |
| | | 315 | 6200 | 42,000 | 58 | 170M4010 | 170M4060 | 170M4110 | 170M4160 | 170M4210 | 170M4260 |
| | | 350 | 8500 | 59,000 | 60 | 170M4011 | 170M4061 | 170M4111 | 170M4161 | 170M4211 | 170M4261 |
| | 690 V a.c. (IEC) | 400 | 13,500 | 91,500 | 65 | 170M4012 | 170M4062 | 170M4112 | 170M4162 | 170M4212 | 170M4262 |
| | | 450 | 17,000 | 120,000 | 70 | 170M4013 | 170M4063 | 170M4113 | 170M4163 | 170M4213 | 170M4263 |
| 1 | 700 V a.c. (UL) | 500 | 25,000 | 170,000 | 78 | 170M4010 | 170M4064 | 170M4114 | 170M4164 | 170M4214 | 170M4264 |
| | (01) | 550 | 34,000 | 230,000 | 75 | 170M4014 170M4015 | 170M4065 | 170M4114 | 170M4165 | 170M4215 | 170M4265 |
| | | 630 | 52,000 | 350,000 | 80 | 170M4015 | 170M4066 | 170M4116 | 170M4166 | 170M4216 | 170M4266 |
| | | 700 | 69,500 | 465,000 | 85 | 170M4010 | 170M4067 | 170M4110 | 170M4167 | 170M4217 | 170M4267 |
| | | 800 | 105,000 | 725,000 | 95 | 170M4017 | 170M4068 | 170M4117 | 170M4168 | 170M4218 | 170M4268 |
| | 550 V a.c. IEC | 900 | 155,000 | 850,000 | 100 | 170M4010 | 170M4069 ¹ | 170M4110 | 170M4169 ¹ | 170M4210 | 170M4269 ¹ |
| | 550 V a.c. 120 | 400 | 11,000 | 74,000 | 65 | 170M5008 | 170M4003 | 170M5108 | 170M5158 | 170M5208 | 170M5258 |
| | | 450 | 15,500 | 105,000 | 70 | 170M5008 | 170M5058 | 170M5108 | 170M5158 | 170M5208 | 170M5259 |
| | | 500 | 21,500 | 145.000 | 70 | 170M5009 | 170M5060 | 170M5109 | 170M5159 | 170M5209 | 170M5260 |
| | 690 V a.c. (IEC) 700 V a.c. (UL) | 550 | 28,000 | 190,000 | 80 | 170M5010 | 170M5060 | 170M5110 | 170M5160 | 170M5210 | 170M5260 |
| | | 630 | 41,000 | 275,000 | 90 | 170M5011 170M5012 | 170M5061 | 170M5111 170M5112 | 170M5161 | 170M5211 | 170M5261 |
| 2 | | | - | | 95 | 170M5012 | | 170M5112 | | | 170M5262 |
| 2 | | 700 | 60,500 | 405,000 | | | 170M5063 | | 170M5163 | 170M5213 | |
| | | 800 | 86,000 | 575,000 | 105 | 170M5014 | 170M5064 | 170M5114 | 170M5164 | 170M5214 | 170M5264 |
| | | 900 | 125,000 | 840,000 | 110 | 170M5015 | 170M5065 | 170M5115 | 170M5165 | 170M5215 | 170M5265 |
| | | 1000 | 180,000 | 1,250,000 | 115 | 170M5016 | 170M5066 | 170M5116 | 170M5166 | 170M5216 | 170M5266 |
| | 600 V a.c. (IEC) / 700 V a.c. UL | 1100 | 245,000 | 1,600,000 | 120 | 170M5017 | 170M5067 | 170M5117 | 170M5167 | 170M5217 | 170M5267 |
| | 700 V d.C. OL | 1250 | 365,000 | 2,400,000 | 130 | 170M5018 | 170M5068 | 170M5118 | 170M5168 | 170M5218 | 170M5268 |
| | | 500 | 14,000 | 95,000 | 95 | 170M6008 | 170M6058 | 170M6108 | 170M6158 | 170M6208 | 170M6258 |
| | | 550 | 19,500 | 135,000 | 100 | 170M6009 | 170M6059 | 170M6109 | 170M6159 | 170M6209 | 170M6259 |
| | | 630 | 31,000 | 210,000 | 105 | 170M6010 | 170M6060 | 170M6110 | 170M6160 | 170M6210 | 170M6260 |
| | | 700 | 44,500 | 300,000 | 110 | 170M6011 | 170M6061 | 170M6111 | 170M6161 | 170M6211 | 170M6261 |
| | 690 V a.c. (IEC) | 800 | 69,500 | 465,000 | 115 | 170M6012 | 170M6062 | 170M6112 | 170M6162 | 170M6212 | 170M6262 |
| | 700 V a.c. (UL) | 900 | 100,000 | 670,000 | 120 | 170M6013 | 170M6063 | 170M6113 | 170M6163 | 170M6213 | 170M6263 |
| 3 | | 1000 | 140,000 | 945,000 | 125 | 170M6014 | 170M6064 | 170M6114 | 170M6164 | 170M6214 | 170M6264 |
| J | | 1100 | 190,000 | 1,300,000 | 130 | 170M6015 | 170M6065 | 170M6115 | 170M6165 | 170M6215 | 170M6265 |
| | | 1250 | 290,000 | 1,950,000 | 140 | 170M6016 | 170M6066 | 170M6116 | 170M6166 | 170M6216 | 170M6266 |
| | | 1400 | 370,000 | 2,450,000 | 155 | 170M6017 | 170M6067 | 170M6117 | 170M6167 | 170M6217 | 170M6267 |
| | | 1500 | 460,000 | 3,100,000 | 160 | 170M6018 | 170M6068 | 170M6118 | 170M6168 | 170M6218 | 170M6268 |
| | | 1600 | 580,000 | 3,900,000 | 160 | 170M6019 | 170M6069 | 170M6119 | 170M6169 | 170M6219 | 170M6269 |
| | 600 V a.c. IEC / 550 V a.c. UL | 1800 | 880,000 | 5,250,000 | 165 | 170M6020 ² | 170M6070 ² | 170M6120 | 170M6170 ² | 170M6220 ² | 170M6270 |
| | 550 V a.c. IEC/UL | 2000 | 1,150,000 | 6,350,000 | 175 | 170M6021 | 170M6071 | 170M6121 | 170M6171 | 170M6221 | 170M6271 |
| | | | ., | -,0,000 | | | | | | | |

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

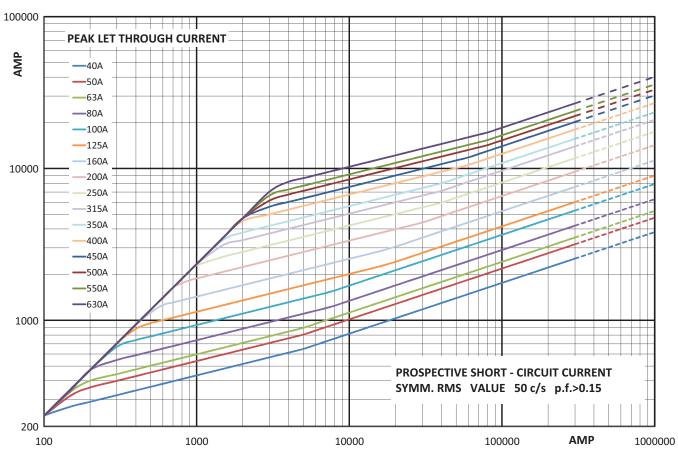
¹ Not UL Approved IEC ² Rated at 750 V d.c. 12XIn 130 kA when two fuses connected in series

170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1*, 40 A to 630 A



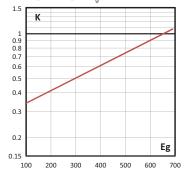
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 1*, 40 A to 630 A

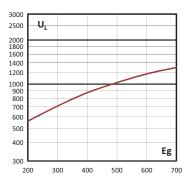
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



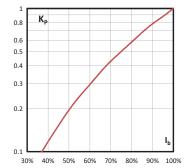
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



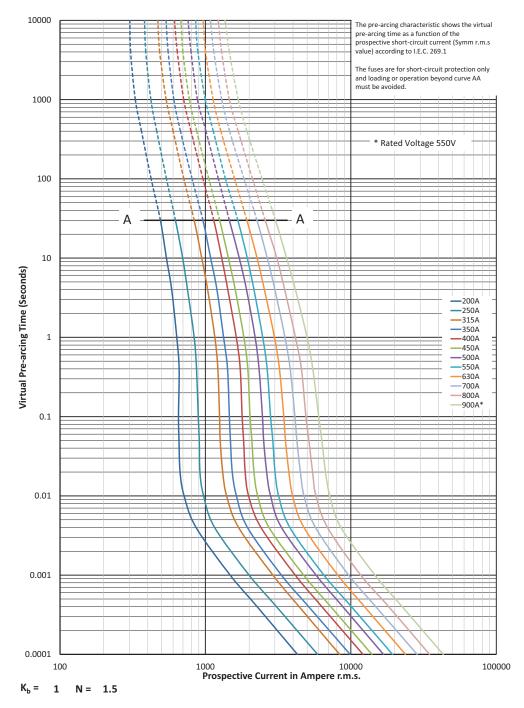
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.

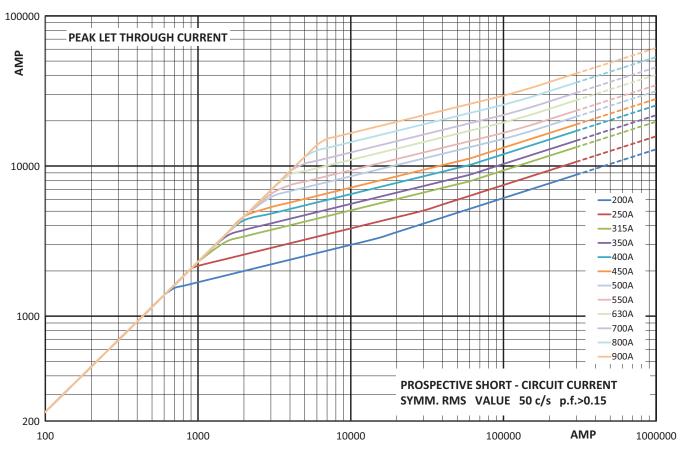


170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1, 200 A to 900 A



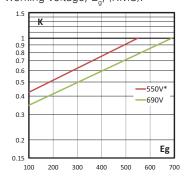
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 1, 200 A to 900 A

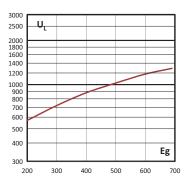
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



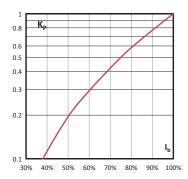
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



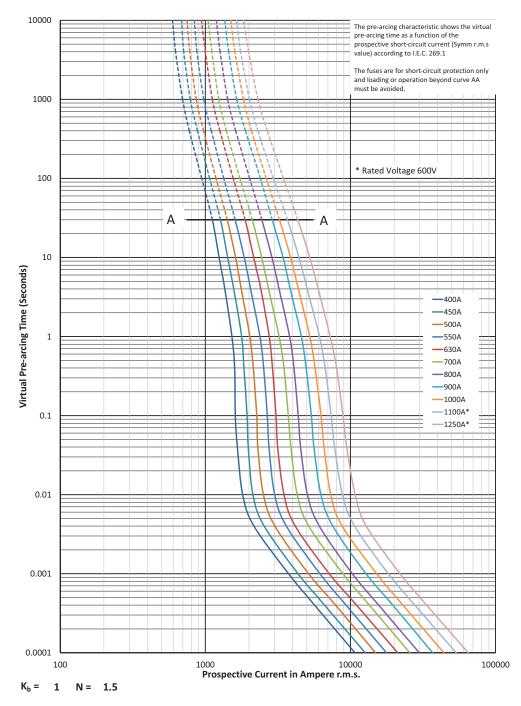
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 2, 400 A to 1250 A



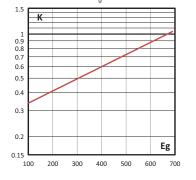
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

1000000 PEAK LET THROUGH CURRENT AMP -400A -450A -500A 100000 -550A -630A -700A -800A -900A 1000A -1100A 1250A 10000 **PROSPECTIVE SHORT - CIRCUIT CURRENT** SYMM. RMS VALUE 50 c/s p.f.>0.15 2000 100000 1000000 AMP 10000000 1000 10000

Cut-off curve - Size 2, 400 A to 1250 A

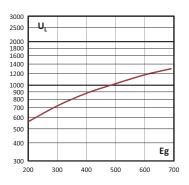
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



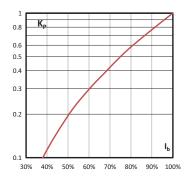
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



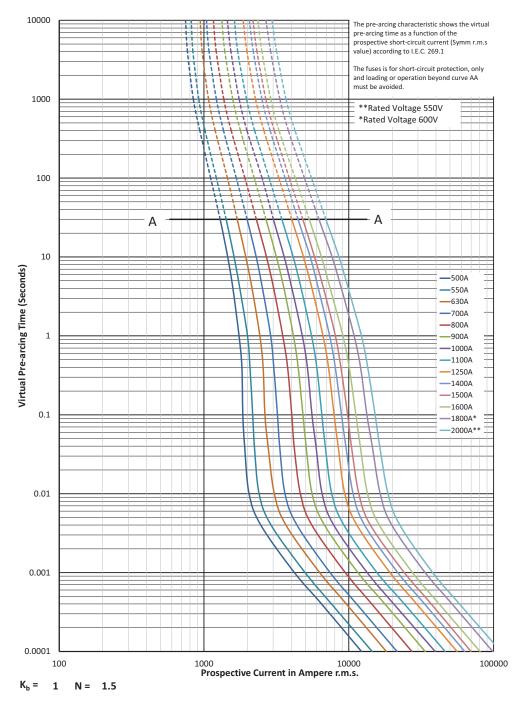
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

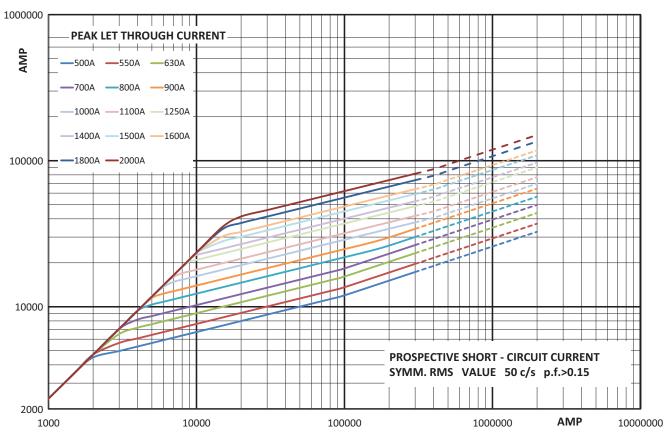


170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve -Size 3, 500 A to 2000 A



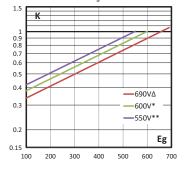
170M - Sizes 1* to 3, DIN 43653, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 3, 500 A to 2000 A

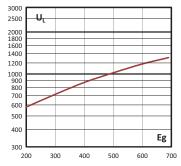
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



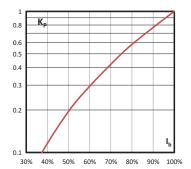
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Size 00, DIN 43653, 1000 V a.c. (IEC and UL), 20 A to 315A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- · Rated voltage:
 - 1000 V a.c. (IEC and UL 20 A to 250 A)
- 900 V a.c. (IEC, 315 A)
- Rated current: 20 A to 315 A
- Breaking capacity: 125 kA RMS Sym
- Operating class: aR

Standards / Agency information

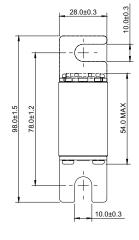
CE, Designed and tested to IEC60269 Part 4, UL Recognised/CSA component acceptance status (20-250 A)

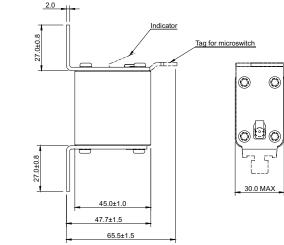
Catalogue numbers



| | | | l²t (A² Sec) | | | Catalogue numbers | | |
|------------------------|-------------------------|-------------------------|--------------|------------------------------|------------------------|---------------------------|--|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at rated voltage | — Watts loss (W) | 00/80 Visual indicator | 00TN/80 Type T indicator for micro | |
| | | 20 | 20 | 140 | 5 | 170M4802 | 170M4822 | |
| | | 25 | 30 | 210 | 7 | 170M4803 | 170M4823 | |
| | | 32 | 55 | 390 | 9 | 170M4804 | 170M4824 | |
| | | 35 | 69 | 500 | 10 | 170M4805 | 170M4825 | |
| | | 40 | 100 | 690 | 11 | 170M4806 | 170M4826 | |
| | | 50 | 170 | 1200 | 13 | 170M4807 | 170M4827 | |
| 00 | 1000 V a.c. (IEC/UL) | 63 | 280 | 2000 | 18 | 170M4808 | 170M4828 | |
| 00 | | 80 | 500 | 3500 | 22 | 170M4809 | 170M4829 | |
| | | 100 | 950 | 6850 | 25 | 170M4810 | 170M4830 | |
| | | 125 | 1500 | 11,500 | 33 | 170M4811 | 170M4831 | |
| | | 160 | 3000 | 22,000 | 37 | 170M4812 | 170M4832 | |
| | | 200 | 5600 | 40,500 | 40 | 170M4813 | 170M4833 | |
| | | 250 | 10,000 | 74,000 | 48 | 170M4814 | 170M4834 | |
| | 900 V a.c. (IEC) | 315 | 18,000 | 115,000 | 58 | 170M4815 | 170M4835 | |

Dimensions (mm)

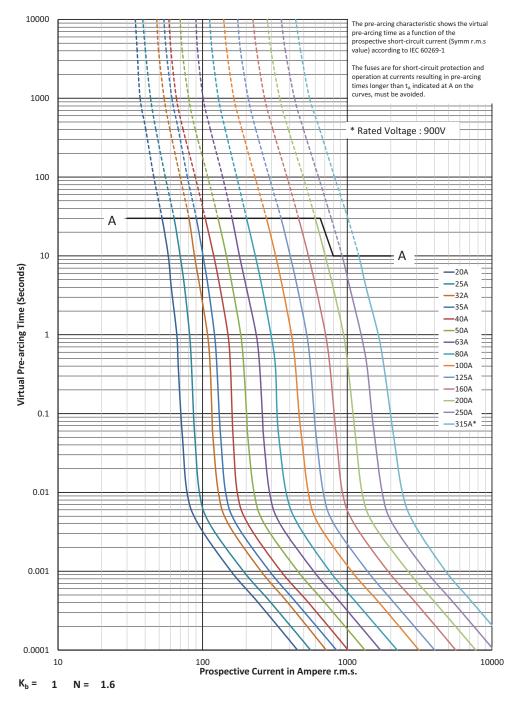




Data sheet: 170K8504

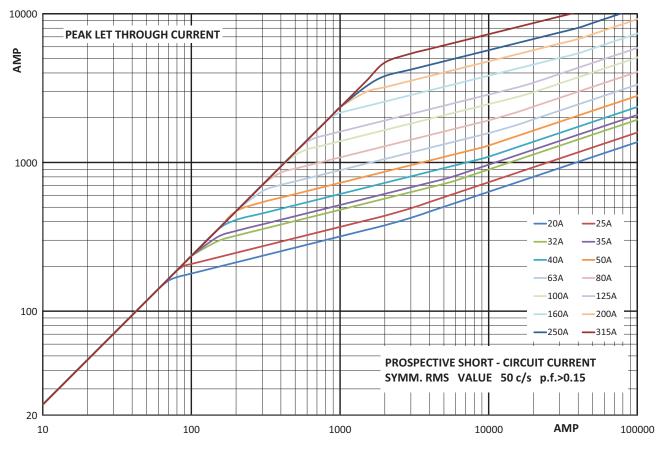
170M - Size 00, DIN 43653, 1000 V a.c. (IEC and UL), 20 A to 315A

Time-current curve - 20 A to 315 A



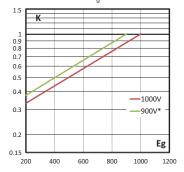
170M - Size 00, DIN 43653, 1000 V a.c. (IEC and UL), 20 A to 315A

Cut-off curve - 20 A to 315 A



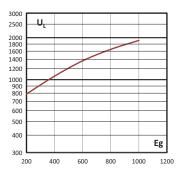
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



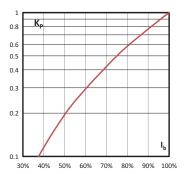
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheet: 170K8504

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 1000 V a.c. (IEC, 50 A to 1250 A), 900 V a.c. (IEC, 1400 A)
 - 1000 V a.c. (UL size 2, size 3, 315 A to 1100 A only)
- Rated current: 50 A to 1400 A
- Breaking Capacity:
 - 125kA RMS Sym. AC
 - Size 1: 50 kA for 750 V d.c.
- Operating Class: aR

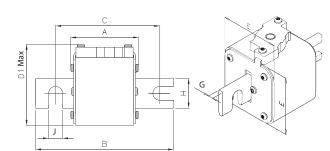
Standards/Agency Information

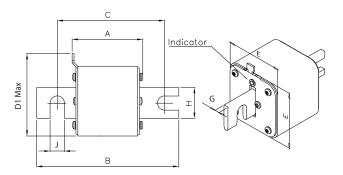
Dimensions (mm) -KN/110

CE, Designed and tested to IEC60269 Part 4, UL Recognised (only sizes 2 and 3), CCC only size 3 (315 A to 1100 A)



Dimensions (mm) -TN/110





| Size | Α | В | C | D1 (max) | Ε | G | Н | J | Size | Α | В | C | D1 (max) | Ε | G | Н | J |
|----------|----|-----|-----|----------|----|---|----|----|----------|----|-----|-----|----------|----|---|----|----|
| 1*KN/110 | 80 | 138 | 108 | 61 | 43 | 6 | 22 | 11 | 1*TN/110 | 80 | 138 | 108 | 61 | 43 | 6 | 22 | 11 |
| 1KN/110 | 80 | 138 | 108 | 69 | 51 | 6 | 25 | 11 | 1TN/110 | 80 | 138 | 108 | 69 | 51 | 6 | 25 | 11 |
| 2KN/110 | 80 | 138 | 108 | 77 | 59 | 6 | 25 | 11 | 2TN/110 | 80 | 138 | 108 | 75 | 59 | 6 | 25 | 11 |
| 3KN/110 | 81 | 139 | 108 | 92 | 74 | 6 | 30 | 11 | 3TN/110 | 81 | 139 | 108 | 90 | 74 | 6 | 30 | 11 |

170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

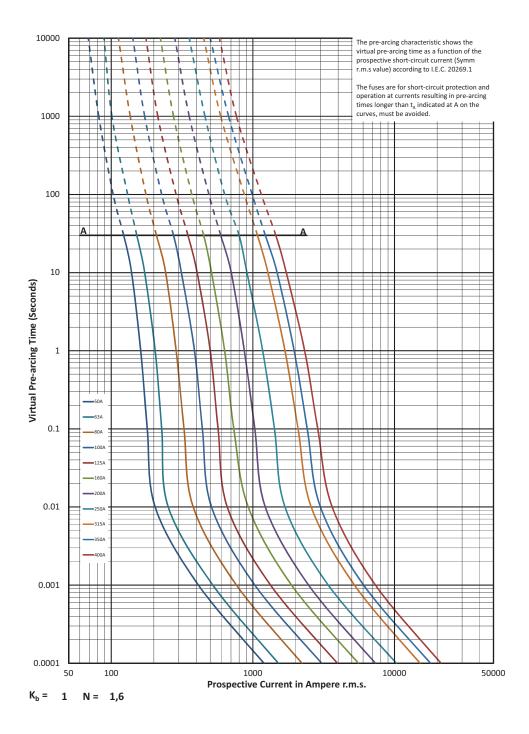
Catalogue numbers

| | | I²t (A² Sec) | | | | Catalogue numbers | | |
|------------------------|-------------------------------|-------------------------|---|-----------|-----|--|--|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | t Clearing Pre-arcing at rated voltage | | | -KN/110 Type K indicator for micro | -TN/110 Type T indicator for micro | |
| | | 50 | 135 | 815 | 20 | 170M3965 | 170M3981 | |
| | | 63 | 215 | 1300 | 25 | 170M3966 | 170M3982 | |
| | | 80 | 460 | 2750 | 30 | 170M3967 | 170M3983 | |
| | | 100 | 860 | 5100 | 35 | 170M3968 | 170M3984 | |
| | | 125 | 1450 | 8600 | 40 | 170M3969 | 170M3985 | |
| 1* | 1000 V a.c. (IEC) | 160 | 2850 | 17,500 | 45 | 170M3970 | 170M3986 | |
| | | 200 | 4950 | 29,500 | 50 | 170M3971 | 170M3987 | |
| | | 250 | 9550 | 57,000 | 55 | 170M3972 | 170M3988 | |
| | | 315 | 21,500 | 130,000 | 65 | 170M3973 | 170M3989 | |
| | | 350 | 29,000 | 175,000 | 70 | 170M3974 | 170M3990 | |
| | | 400 | 42,000 | 250,000 | 75 | 170M3975 | 170M3991 | |
| | | 160 | 2200 | 13,500 | 40 | 170M4965 | 170M4980 | |
| | | 200 | 4150 | 24,500 | 45 | 170M4966 | 170M4981 | |
| | | 250 | 7750 | 46,000 | 52 | 170M4967 | 170M4982 | |
| 1 | | 315 | 16,500 | 98,500 | 60 | 170M4968 | 170M4983 | |
| | 1000 V a.c. (IEC) | 350 | 21,500 | 130,000 | 65 | 170M4969 | 170M4984 | |
| | 1000 V a.c. / 750 V d.c. (UL) | 400 | 31,000 | 185,000 | 70 | 170M4970 | 170M4985 | |
| | | 450 | 44,500 | 265,000 | 80 | 170M4971 | 170M4986 | |
| | | 500 | 63,000 | 375,000 | 85 | 170M4972 | 170M4987 | |
| | | 550 | 84,500 | 500,000 | 90 | 170M4973 | 170M4988 | |
| | | 630 | 125,000 | 755,000 | 98 | 170M4974 | 170M4989 | |
| | | 250 | 6750 | 40,000 | 65 | 170M5966 | 170M5981 | |
| | | 315 | 13,500 | 81,500 | 75 | 170M5967 | 170M5982 | |
| | | 350 | 16,500 | 99,000 | 80 | 170M5968 | 170M5983 | |
| | | 400 | 26,000 | 155,000 | 85 | 170M5969 | 170M5984 | |
| | | 450 | 35,500 | 210,000 | 90 | 170M5970 | 170M5985 | |
| 2 | 1000 V a.c. (IEC and UL) | 500 | 49,500 | 295,000 | 95 | 170M5971 | 170M5986 | |
| | | 550 | 66,000 | 390,000 | 100 | 170M5972 | 170M5987 | |
| | | 630 | 93,500 | 555,000 | 110 | 170M5973 | 170M5988 | |
| | | 700 | 130,000 | 770,000 | 115 | 170M5974 | 170M5989 | |
| | | 800 | 195,000 | 1,200,000 | 125 | 170M5975 | 170M5990 | |
| | | 315 | 9200 | 54,500 | 90 | 170M8614 | 170M8629 ¹ | |
| | | 350 | 13,000 | 77,500 | 95 | 170M8615 | 170M8630 ¹ | |
| | | 400 | 19,000 | 115,000 | 105 | 170M8616 | 170M86311 | |
| | | 450 | 27,000 | 160,000 | 107 | 170M8617 | 170M86321 | |
| | | 500 | 37,500 | 225,000 | 110 | 170M8618 | 170M86331 | |
| | | 550 | 52,000 | 310,000 | 115 | 170M8619 | 170M86341 | |
| | 1000 V a.c. (IEC and UL) | 630 | 82,500 | 490,000 | 120 | 170M8620 | 170M8635 ¹ | |
| 3 | | 700 | 115,000 | 700,000 | 125 | 170M8621 | 170M8636 ¹ | |
| | | 800 | 170,000 | 1,050,000 | 135 | 170M8622 | 170M8637 ¹ | |
| | | 900 | 250,000 | 1,500,000 | 145 | 170M8623 | 170M8638 ¹ | |
| | | 1000 | 340,000 | 2,050,000 | 150 | 170M8624 | 170M8639 ¹ | |
| | | 1100 | 460,000 | 2,750,000 | 155 | 170M8625 | 170M8640 ¹ | |
| | 1000 V a.c. (IEC) | 1250 | 575,000 | 3,400,000 | 175 | 170M8626 | 170M8641 | |
| | 900 V a.c. (IEC) | 1400 | 795,000 | 4,200,000 | 185 | 170M8627 | 170M8642 | |

¹ Rated at 900 V d.c. 8XIn 90 kA

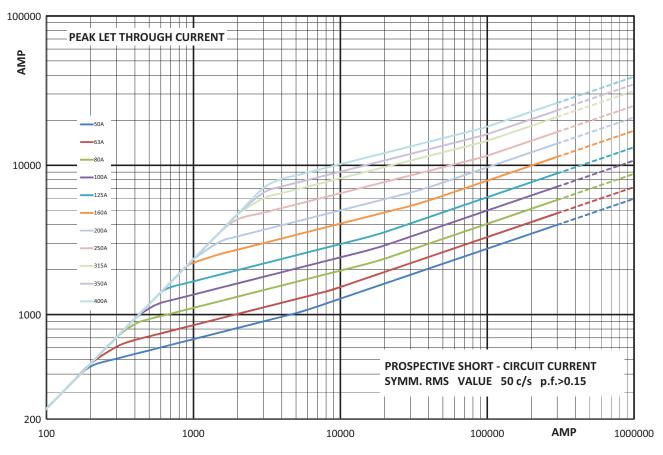
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 1* - 50 A to 400 A



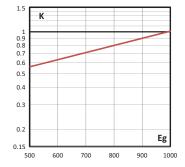
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 1*, 50 A to 400 A



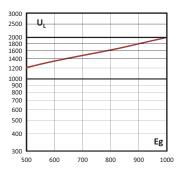
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



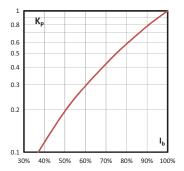
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



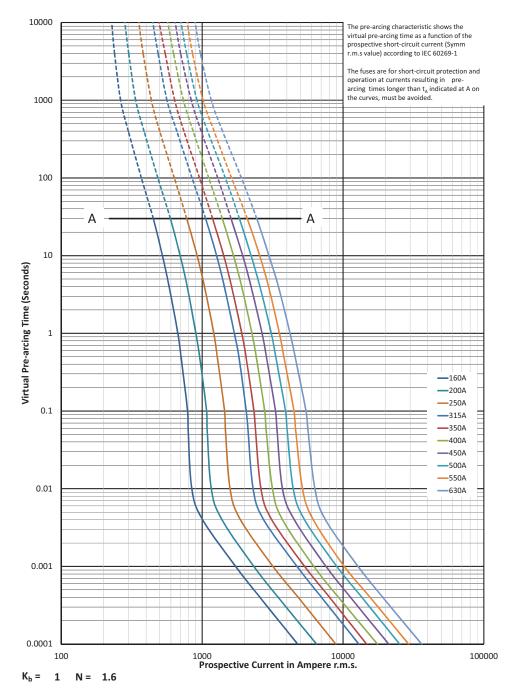
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



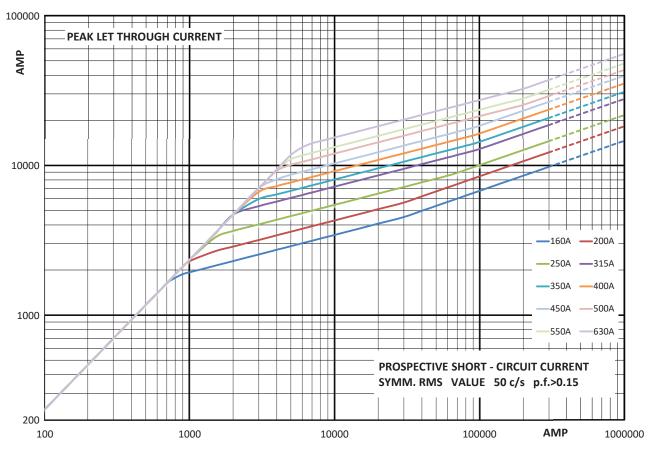
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



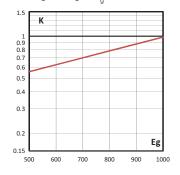
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 1, 160 A to 630 A



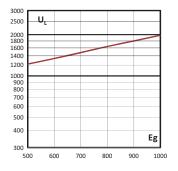
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



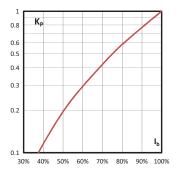
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



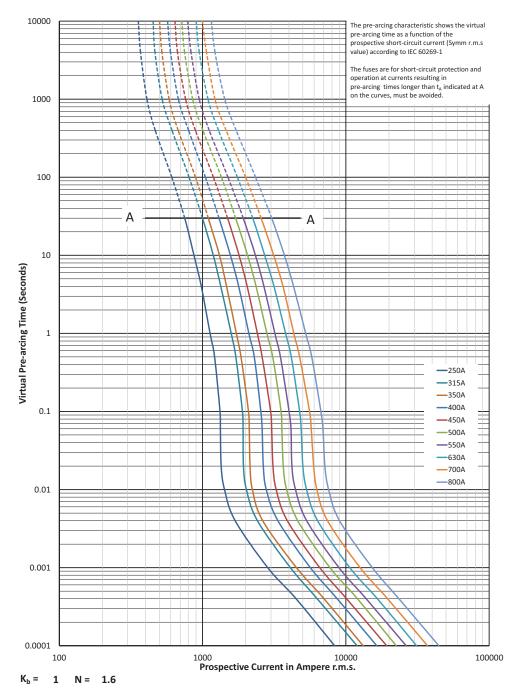
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



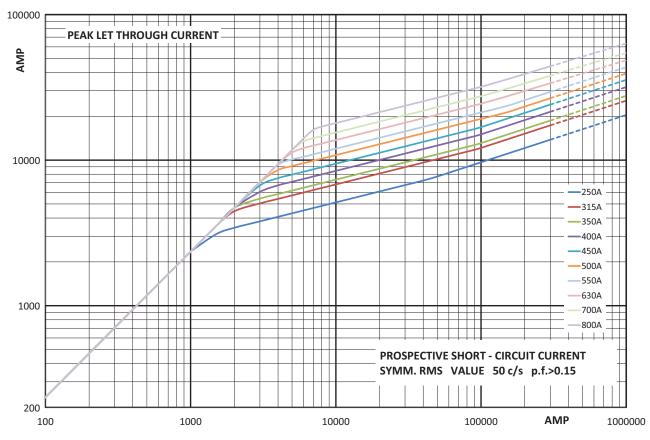
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 800 A



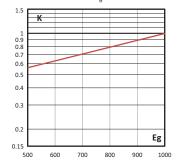
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 2, 250 A to 800 A



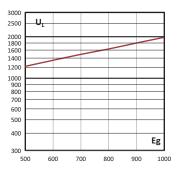
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



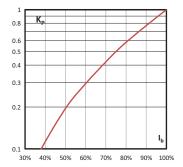
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



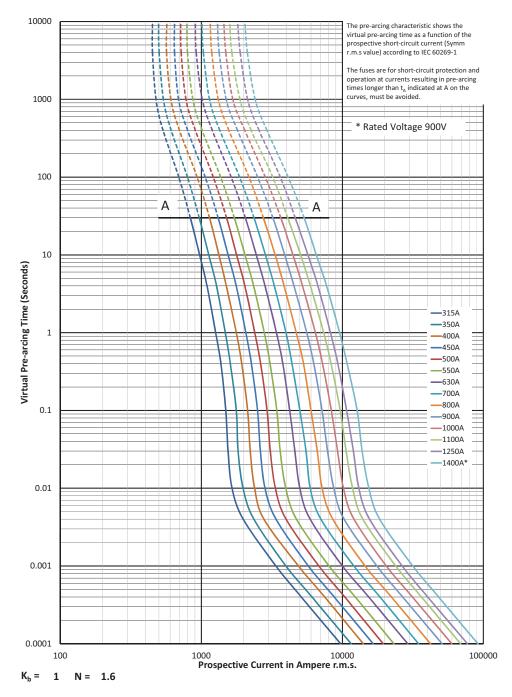
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



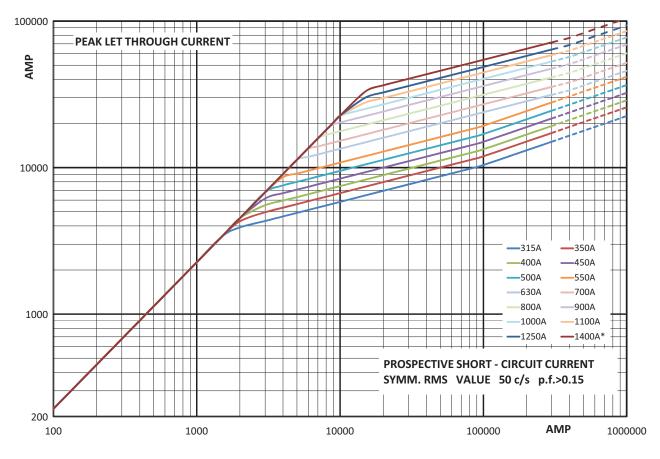
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A



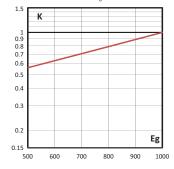
170M - Sizes 1* to 3, DIN 43653, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 3, 315 A to 1400 A



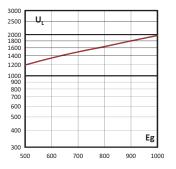
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



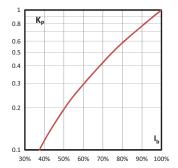
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, $E_{q'}$ (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Specifications

Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

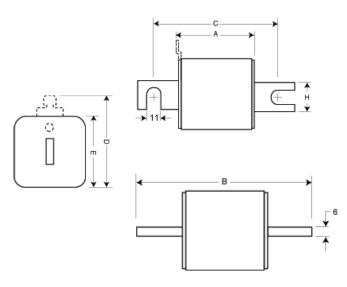
- Rated voltage: see table opposite page
- Rated current: 50 A to 1400 A
- Breaking capacity: 100 kA RMS Sym.
- Operating class: aR

Standards / Agency information

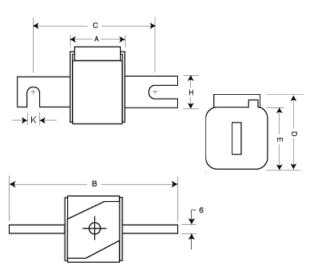
CE, Designed and tested to IEC60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance status.



Dimensions (mm) -110 and TN/110



| Size | Α | В | C | \mathbf{D}^{1} | E | Н | К | |
|------|----|-----|-----|------------------|----|----|----|--|
| 1* | 80 | 138 | 108 | 58 | 45 | 20 | 11 | |
| 1 | 80 | 138 | 108 | 66 | 53 | 25 | 11 | |
| 2 | 80 | 138 | 108 | 75 | 61 | 25 | 11 | |
| 3 | 81 | 139 | 108 | 90 | 76 | 30 | 11 | |



Dimensions (mm) - KN/110

| Α | В | C | D | E | Н | К |
|----|-----|---|---|---|---|---|
| 80 | 138 | 108 | 60 | 45 | 20 | 11 |
| 80 | 138 | 108 | 69 | 53 | 25 | 11 |
| 80 | 138 | 108 | 77 | 61 | 25 | 11 |
| 81 | 139 | 108 | 92 | 76 | 30 | 11 |
| | 80 | 80 138 80 138 | 80 138 108 80 138 108 | 80 138 108 69 80 138 108 77 | 80 138 108 69 53 80 138 108 77 61 | R B C B C F |

¹ Clip on Microswitch valid for fuse links -TN//110. 1mm = 0.0394" 1mm = 0.0394"

170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Catalogue numbers

| | | | l²t (A² Sec) | | | | Catalogue numbers | | | |
|------------------------|-------------------|-------------------------|--------------|----------------------------|----------------------------|-------------------|------------------------------|---|---|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1000 V a.c. | Clearing at 1250 V a.c. | Watts loss (W) | -/110 Visual indicator | -TN/110 Type T indicator for micro | -KN/110 Type K indicator for micro | |
| | | 50 | 135 | 815 | 1100 | 15 | 170M3138 | 170M3188 | 170M3238 | |
| | | 63 | 215 | 1300 | 1750 | 20 | 170M3139 | 170M3189 | 170M3239 | |
| | | 80 | 420 | 2500 | 3350 | 25 | 170M3140 | 170M3190 | 170M3240 | |
| | | 100 | 750 | 4450 | 5950 | 30 | 170M3141 | 170M3191 | 170M3241 | |
| | 1250 V a.c. (IEC) | 125 | 1450 | 9000 | 11,500 | 35 | 170M3142 | 170M3192 | 170M3242 | |
| 1* | | 160 | 2600 | 16,000 | 21,000 | 40 | 170M3143 | 170M3193 | 170M3243 | |
| | 1300 V a.c. (UL) | 200 | 5150 | 31,000 | 41,000 | 45 | 170M3144 | 170M3194 | 170M3244 | |
| | | 250 | 9200 | 54,500 | 73,000 | 55 | 170M3145 | 170M3195 | 170M3245 | |
| | | 315 | 18,500 | 115,000 | 150,000 | 60 | 170M3146 | 170M3196 | 170M3246 | |
| | | 350 | 27,000 | 165,000 | 220,000 | 65 | 170M3147 | 170M3197 | 170M3247 | |
| | | 400 | 53,000 | 265,000 | 335,000 | 70 | 170M3148 | 170M3198 | 170M3248 | |
| | | 160 | 1900 | 11,500 | 15,500 | 45 | 170M4138 ² | 170M4188 ² | 170M4238 ² | |
| | | 200 | 3800 | 22,500 | 30,000 | 50 | 170M4139 ² | 170M4189 ² | 170M4239 ² | |
| | 12E0 \/ a a //EC) | 250 | 7750 | 46,000 | 61,500 | 60 | 170M4140 ² | 170M4190 ² | 170M4240 ² | |
| | 1250 V a.c. (IEC) | 315 | 15,000 | 90,000 | 120,000 | 65 | 170M4141 ² | 170M4191 ² | 170M4241 ² | |
| | 1300 V a.c. (UL) | 350 | 20,000 | 125,000 | 165,000 | 70 | 170M4142 ² | 170M4192 ² | 170M4242 ² | |
| 1 | | 400 | 29,500 | 175,000 | 235,000 | 75 | 170M4143 ² | 170M4193 ² | 170M4243 ² | |
| | | 450 | 42,000 | 250,000 | 335,000 | 80 | 170M4144 ² | 170M4194 ² | 170M4244 ² | |
| | 800 V d.c. (UL) | 500 | 69,500 | 340.000 | 435,000 | 85 | 170M4145 | 170M4195 | 170M4245 | |
| | 85 kA IR | 550 | 95,000 | 465,000 | 590,000 | 95 | 170M4146 | 170M4196 | 170M4246 | |
| | 1100 V a.c. (IEC) | 630 | 130,000 | 660,000 | N/A | 100 | 170M4147 ¹ | 170M4197 ¹ | 170M4247 ¹ | |
| | | 250 | 6500 | 38,500 | 51,500 | 65 | 170M5138 | 170M5188 | 170M5238 | |
| | | 280 | 9350 | 55,500 | 74,500 | 70 | 170M5139 | 170M5189 | 170M5239 | |
| | | 315 | 13,000 | 77,500 | 105,000 | 75 | 170M5140 | 170M5190 | 170M5240 | |
| | | 350 | 16,500 | 97,500 | 135,000 | 80 | 170M5141 | 170M5191 | 170M5241 | |
| | (150) | 400 | 23,000 | 140,000 | 180,000 | 85 | 170M5142 | 170M5192 | 170M5242 | |
| | 1250 V a.c. (IEC) | 450 | 34,000 | 205,000 | 270,000 | 90 | 170M5143 | 170M5193 | 170M5243 | |
| 2 | 1300 V a.c. (UL) | 500 | 48,000 | 285,000 | 380.000 | 95 | 170M5144 | 170M5194 | 170M5244 | |
| - | | 550 | 62,000 | 370,000 | 495,000 | 100 | 170M5145 | 170M5195 | 170M5245 | |
| | | 630 | 115,000 | 575,000 | 730,000 | 120 | 170M5146 ² | 170M5196 ² | 170M5246 | |
| | | 700 | 160,000 | 795,000 | 1,050,000 | 125 | 170M5147 ² | 170M5197 ² | 170M5247 | |
| | | 800 | 245,000 | 1,200,000 | 1,550,000 | 130 | 170M5148 ² | 170M5198 ² | 170M5248 | |
| | 1100 V a.c. | 900 | 360,000 | 1,750,000 | N/A | 135 | 170M5149 ⁴ | 170M5199 ⁴ | 170M5249 ⁴ | |
| | (IEC & UL) | 1000 | 480,000 | 2,350,000 | N/A | 145 | 170M5150 ⁴ | 170M5200 ⁴ | 170M5250 ⁴ | |
| | | 315 | 9500 | 58,000 | 77,500 | 85 | 170M6138 ² | 170M6188 ² | 170M6238 ² | |
| | | 350 | 13,500 | 81,500 | 110,000 | 90 | 170M6139 ² | 170M6189 ² | 170M6239 ² | |
| | | 400 | 19,500 | 120,000 | 160,000 | 95 | 170M6140 ² | 170M6190 ² | 170M6240 ² | |
| | | 450 | 31,000 | 185,000 | 245,000 | 100 | 170M6141 ² | 170M6191 ² | 170M6241 ² | |
| | | 500 | 39,000 | 235,000 | 310,000 | 105 | 170M6142 ² | 170M6192 ² | 170M6242 ² | |
| | | 550 | 55,000 | 325,000 | 435,000 | 110 | 170M6142 | 170M6193 ² | 170M6242 | |
| | 1300 V a.c. (UL) | 630 | 83,500 | 495,000 | 665,000 | 115 | 170M6144 ² | 170M6194 ² | 170M6248 | |
| 3 | | 700 | 115,000 | 705,000 | 940,000 | 120 | 170M6145 ² | 170M6195 ² | 170M6245 ² | |
| | | 800 | 205,000 | 995,000 | 1,300,000 | 125 | 170M6146 ³ | 170M6196 ³ | 170M6245 | |
| | | 900 | 305,000 | 1,500,000 | 1,900,000 | 130 | 170M6140 ⁴ | 170M6197 ³ | 170M6240 | |
| | | 1000 | 450,000 | 2,150,000 | 2,750,000 | 135 | 170M6148 ³ | 170M6198 ³ | 170M62481 | |
| | | 1100 | 575,000 | 2,800,000 | 3,600,000 | 160 | 170M6148 ³ | 170M6198 ³ | 170M6249 ¹ | |
| | 1100 V a.c. (IEC) | 1250 | | | 3,600,000 N/A | 170 | 170M6150 ⁵ | 170M62001 | 170M62501 | |
| | 1100 v d.C. (IEC) | | 810,000 | 3,950,000 | | | 170M6150° | | | |
| | | 1400 | 1,250,000 | 6,000,000 | N/A | 175 | 170101513 | 170M62011 | 170M62511 | |

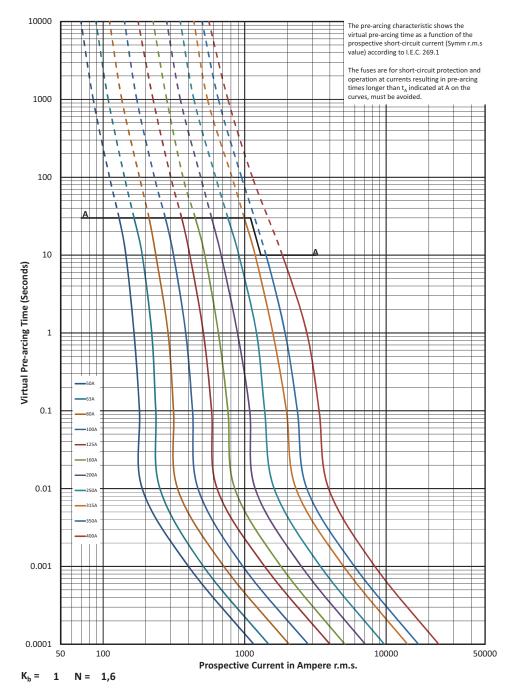
¹ These fuse links are not UL recognised ² 900 V d.c. 8XIn 90 kA ⁵ 900 V d.c. 12XIn 90 kA

³ Rated at 1000 V d.c. 10XIn 91 kA

⁴ 900 V d.c. 9.5XIn 80 kA

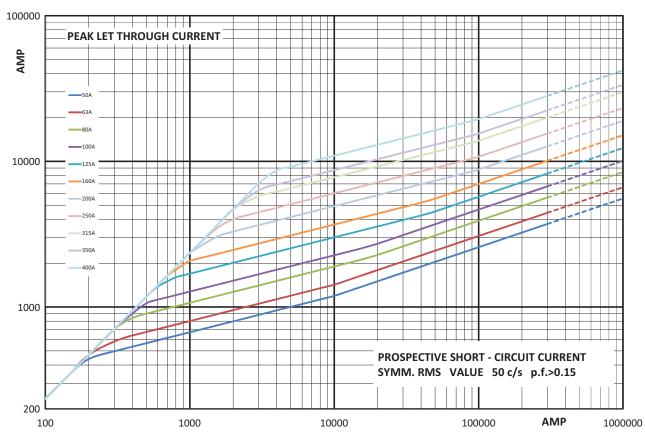
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1*, 50 A to 400 A



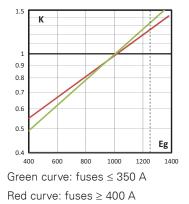
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 1*, 50 A to 400 A



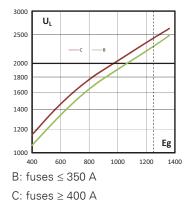
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



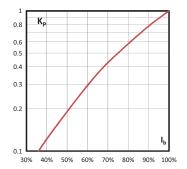
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



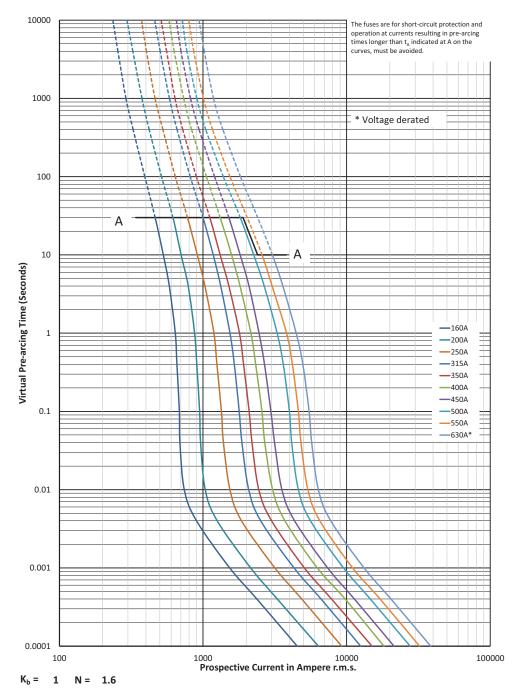
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



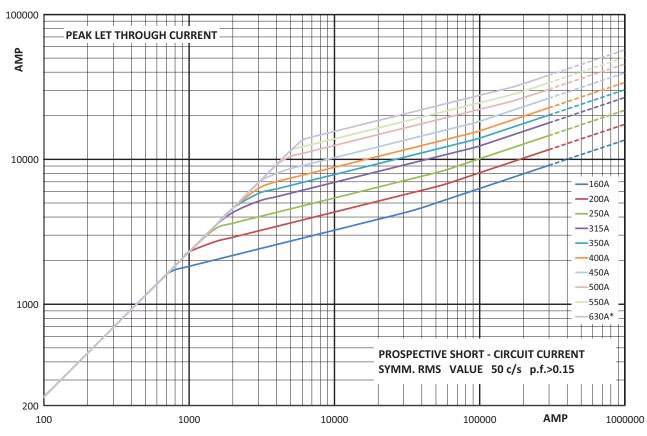
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



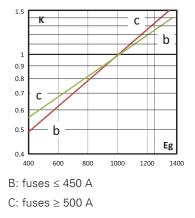
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 1, 160 A to 630 A



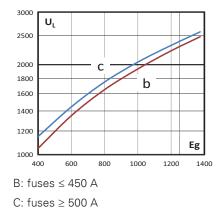
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



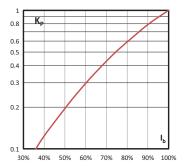
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



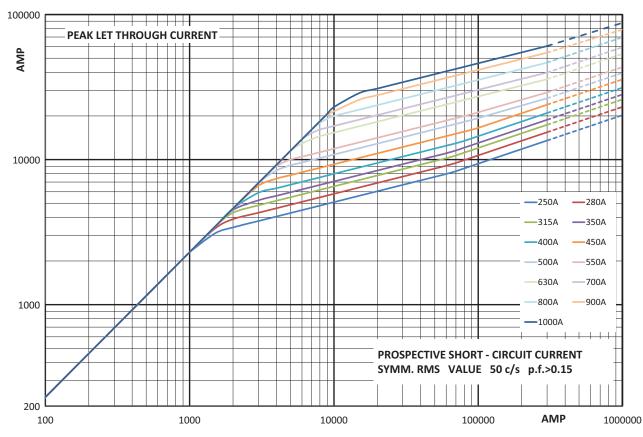
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

10000 The fuses are for short-circuit protection and operation at currents resulting in pre-arcing times longer than t_A indicated at A on the curves, must be avoided. * Voltage derated 1000 100 A 10 Α Virtual Pre-arcing Time (Seconds) 250A 280A -315A 1 350A -400A -450A 4 500A -550A -630A 0.1 -700A -800A -900A* -1000A* 0.01 0.001 0.0001 1000 Prospective Current in Ampere r.m.s. 100 10000 100000 K_b = 1 N = 1.6

Time-current curve - Size 2, 250 A to 1000 A

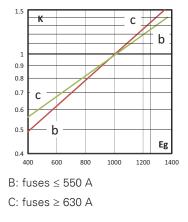
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 2, 250 A to 1000 A



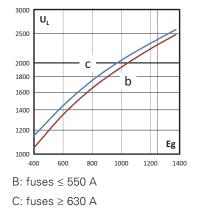
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



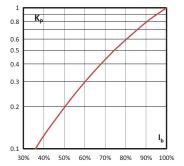
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



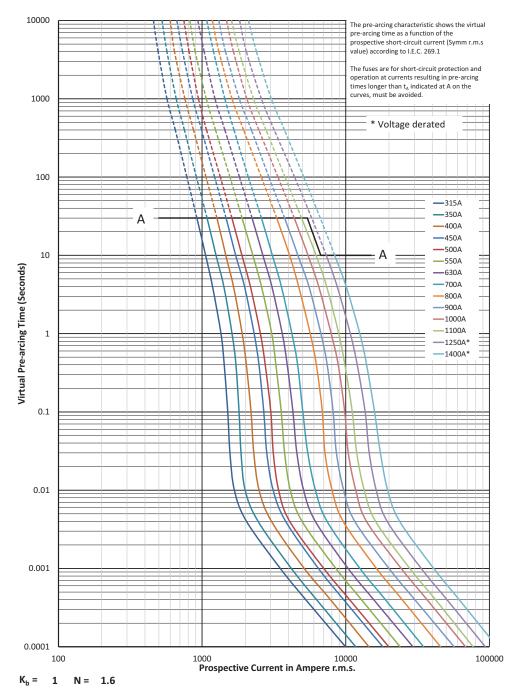
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



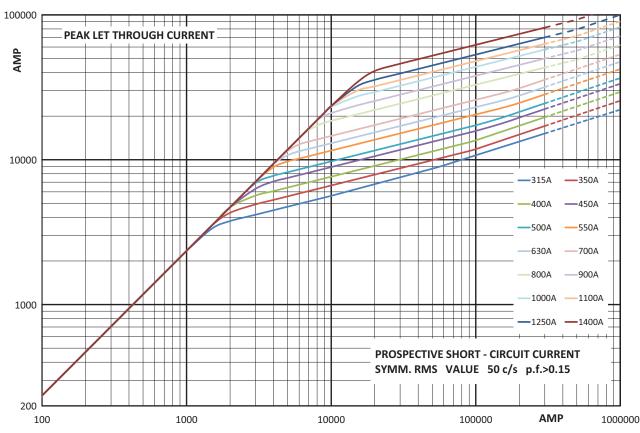
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A



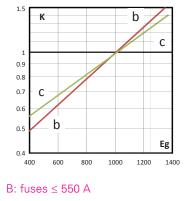
170M - Sizes 1* to 3, DIN 43653, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 3, 315 A to 1400 A



Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).

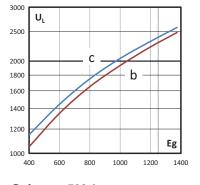


C: fuses ≥ 630 A

130

Arc voltage

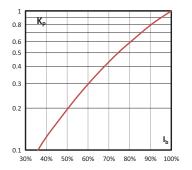
This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



B: fuses ≤ 700 A C: fuses ≥ 800 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Specifications

Description

Square body DIN 43620 blade high speed fuse links. Full range protection fuse links provide both overload and short-circuit protection.

Technical data

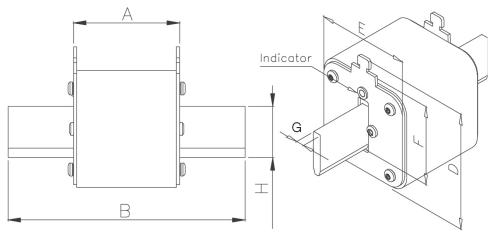
- Rated voltage: 690 V a.c. (IEC)
- Rated current: 10 A to 800 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: gR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4

Dimensions (mm)





| Size | Α | В | D (max) | E (max) | F | G | H (min) |
|------|----|------|---------|---------|----|---|---------|
| 00 | 49 | 78.5 | 60 | 30 | 35 | 6 | 15 |
| 1 | 68 | 135 | 66 | 52 | 40 | 6 | 20 |
| 2 | 68 | 150 | 74 | 60 | 48 | 6 | 25 |
| 3 | 68 | 150 | 89 | 75 | 60 | 6 | 32 |

170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Catalogue numbers

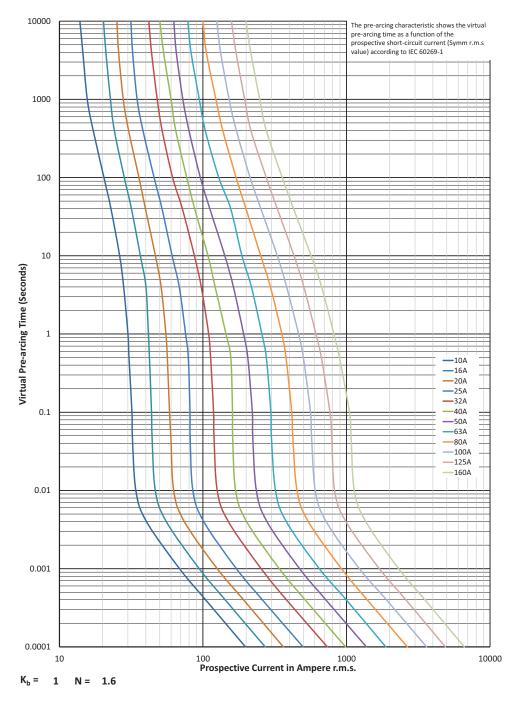
| | | | I²t (A² Sec) | | | Catalogue numbers | | |
|------------------------|------------------|-----------------------------------|--------------|---------------------------|-------------------|----------------------------|--|--|
| Fuse link body size | Rated voltage | Rated current (Amps) ¹ | Pre-arcing | Clearing at 690 V a.c. | Watts loss (W) | Type T indicator for micro | | |
| - | | 10 | 3.8 | 20 | 3.5 | 170M2691 | | |
| | | 16 | 7.2 | 38 | 5.5 | 170M2692 | | |
| | | 20 | 13 | 70 | 6 | 170M2693 | | |
| | | 25 | 24 | 125 | 8 | 170M2694 | | |
| | | 32 | 53 | 275 | 9 | 170M2695 | | |
| 0 | 000.)/ (/FO) | 40 | 95 | 490 | 10 | 170M2696 | | |
| 00 | 690 V a.c. (IEC) | 50 | 185 | 1000 | 11 | 170M2697 | | |
| | | 63 | 345 | 1800 | 14 | 170M2698 | | |
| | | 80 | 695 | 3600 | 16 | 170M2699 | | |
| | | 100 | 1250 | 6650 | 19 | 170M2700 | | |
| | | 125 | 2300 | 12,000 | 23 | 170M2701 | | |
| | | 160 | 4350 | 22,500 | 29 | 170M2702 | | |
| | | 50 | 135 | 705 | 12 | 170M4176 | | |
| | | 63 | 245 | 1300 | 15 | 170M4177 | | |
| | | 80 | 500 | 2600 | 17 | 170M4178 | | |
| | | 100 | 950 | 4850 | 20 | 170M4179 | | |
| | | 125 | 1850 | 9500 | 23 | 170M4180 | | |
| I | 690 V a.c. (IEC) | 160 | 3450 | 18,000 | 28 | 170M4181 | | |
| | | 200 | 6750 | 34,500 | 31 | 170M4182 | | |
| | | 250 | 13,500 | 70,500 | 35 | 170M4183 | | |
| | | 315 | 26,000 | 135,000 | 41 | 170M4184 | | |
| | | 350 | 34,000 | 175,000 | 45 | 170M4185 | | |
| | | 400 | 48,500 | 250,000 | 48 | 170M4186 | | |
| | | 200 | 5650 | 29,000 | 33 | 170M5881 | | |
| | | 250 | 10,000 | 52,500 | 40 | 170M5882 | | |
| | | 315 | 19,500 | 105,000 | 46 | 170M5883 | | |
| | | 350 | 26,000 | 135,000 | 50 | 170M5884 | | |
| 2 | 690 V a.c. (IEC) | 400 | 39,500 | 205,000 | 53 | 170M5885 | | |
| | | 450 | 55,500 | 290,000 | 59 | 170M5886 | | |
| | | 500 | 73,000 | 375,000 | 66 | 170M5887 | | |
| | | 550 | 100,000 | 515,000 | 70 | 170M5888 | | |
| | | 630 | 150,000 | 770,000 | 79 | 170M5889 | | |
| | | 350 | 23,000 | 120,000 | 55 | 170M6080 | | |
| | | 400 | 34,000 | 175,000 | 59 | 170M6081 | | |
| | | 450 | 48,500 | 250,000 | 62 | 170M6082 | | |
| | | 500 | 64,000 | 330,000 | 67 | 170M6083 | | |
| 3 | 690 V a.c. (IEC) | 550 | 84,500 | 435,000 | 70 | 170M6084 | | |
| | | 630 | 125,000 | 645,000 | 85 | 170M6085 | | |
| | | 700 | 160,000 | 840,000 | 93 | 170M6086 | | |
| | | 800 | 245,000 | 1,300,000 | 99 | 170M6087 | | |

¹ The RMS Amp rating of this fuse links range is given with open fuse bases connected to copper conductors according to IEC 60269-1, table 17. When used in enclosed fuse bases/disconnects, derating factors have to be observed. Please contact Eaton for application assistance bulehighspeedtechnical@eaton.com.

Data sheets: 170K6412 (Size 00), 170K6416 (Size 1), 170K6418 (Size 2), 170K6420 (Size 3)

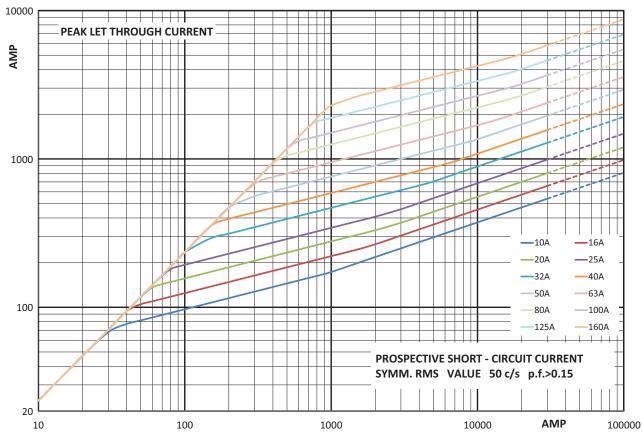
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Time-current curve - Size 00, 10 A to 160 A



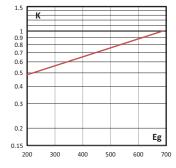
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Cut-off curve - Size 00, 10 A to 160 A



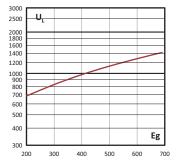
Total clearing l²t

The total clearing l²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



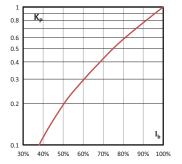
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

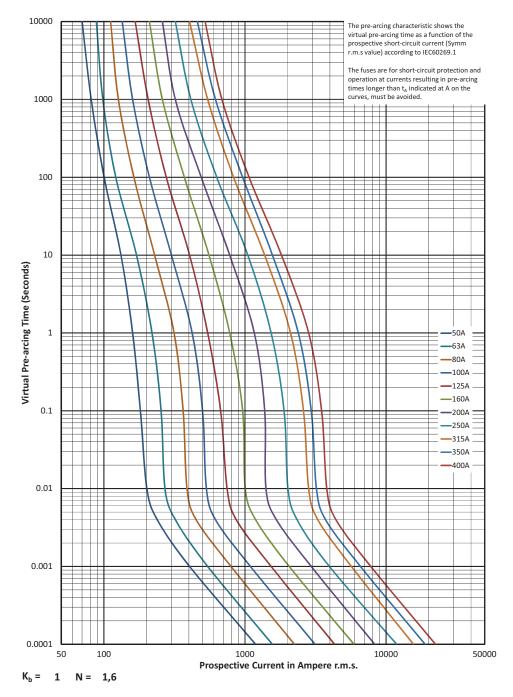
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6412 (Size 00), 170K6416 (Size 1), 170K6418 (Size 2), 170K6420 (Size 3)

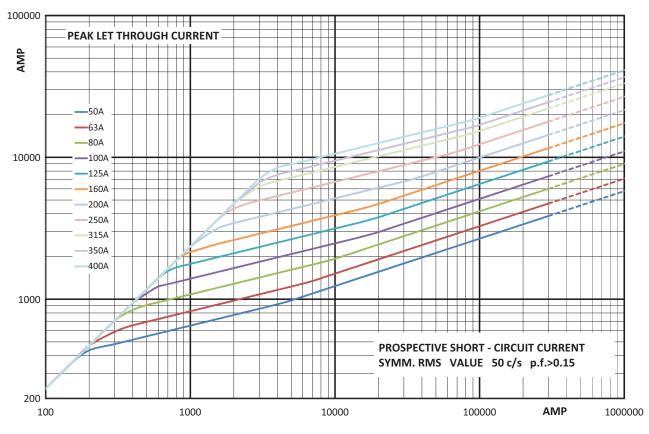
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Time-current curve - Size 1, 50 A to 400 A



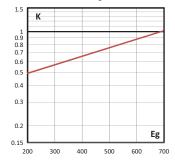
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Cut-off curve - Size 1, 50 A to 400 A



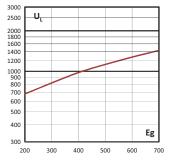
Total clearing l²t

The total clearing l²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



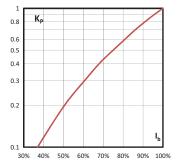
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

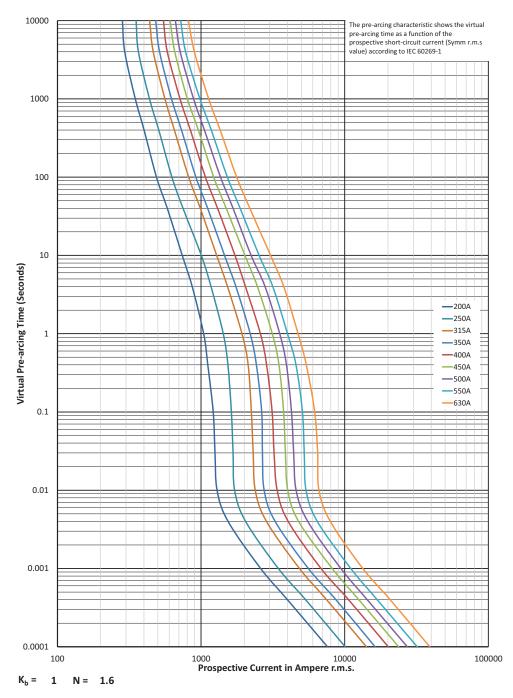
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6412 (Size 00), 170K6416 (Size 1), 170K6418 (Size 2), 170K6420 (Size 3)

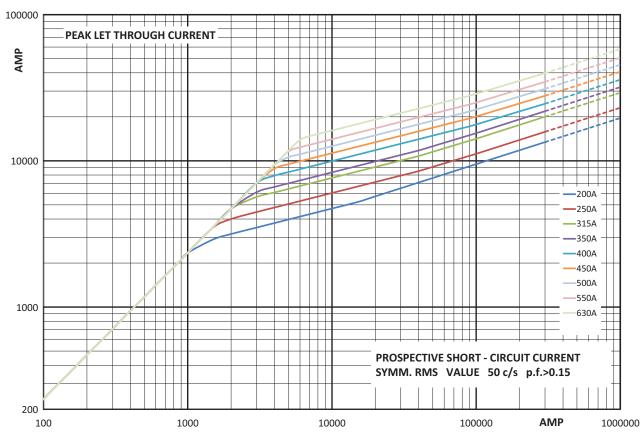
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Time-current curve - Size 2, 200 A to 630 A



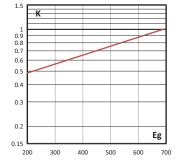
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Cut-off curve - Size 2, 200 A to 630 A



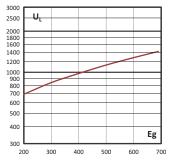
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{q} , (RMS).



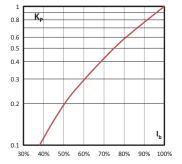
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

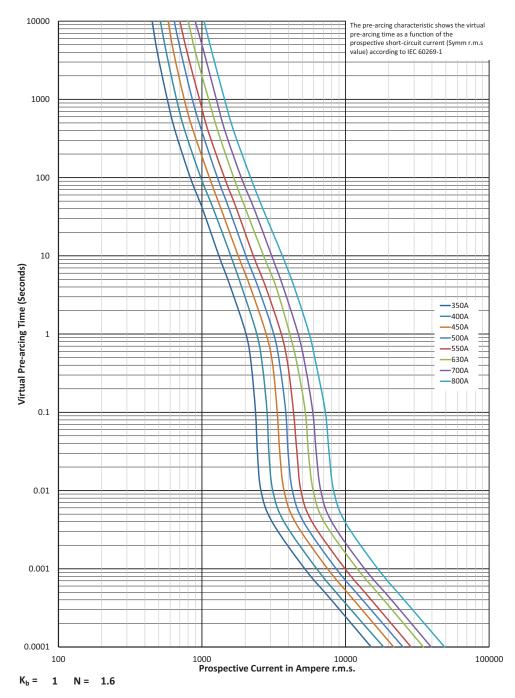
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6412 (Size 00), 170K6416 (Size 1), 170K6418 (Size 2), 170K6420 (Size 3)

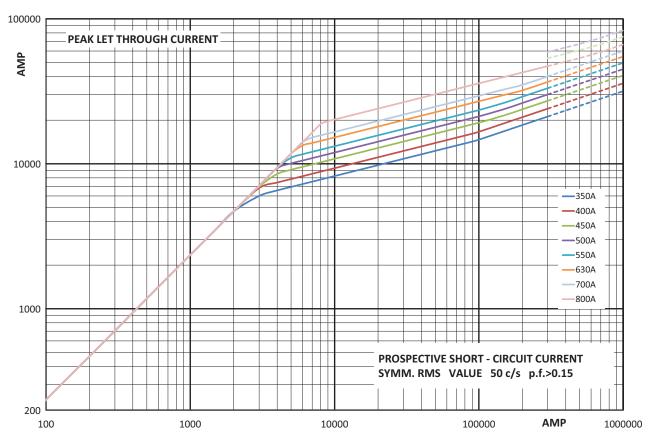
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Time-current curve - Size 3, 350 A to 800 A



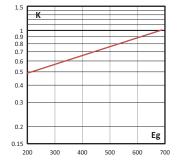
170M - Sizes 00 to 3, DIN 43620, Full range (gR), 690 V a.c. (IEC), 10 A to 800 A

Cut-off curve - Size 3, 350 A to 1000 A



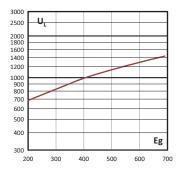
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{α} , (RMS).



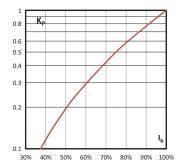
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6412 (Size 00), 170K6416 (Size 1), 170K6418 (Size 2), 170K6420 (Size 3)

170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Specifications

Description

Square body DIN 43620 blade high speed fuse links with dual indicator system: one indicator in the fuse body and another one in the metallic end plate. Interchangeable with existing high speed DIN 43620 fuse links for the protection of UPS, soft starters, solid state relays, variable speed drives, rectifiers and inverters.

Technical data

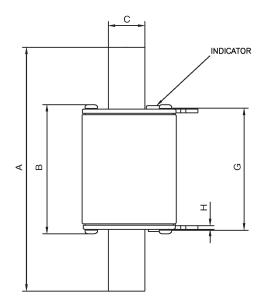
- Rated voltage:
 - 690 V a.c. (IEC)
 - 700 V a.c. (UL)
- Rated current: 10 A to 1600 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: gR (size 000, 10 A to 63A), aR (others)

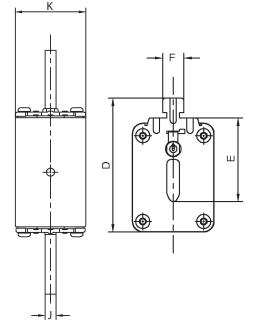
Standards / Agency information

CE, IEC60269 Part 4, UL and CSA Recognised



Dimensions (mm)





| Size | Α | В | C | D | E | F | G | H | J | K | |
|------|------|------|------|----|----|----|------|-----|---|------|--|
| 000 | 78.5 | 53 | 15 | 52 | 35 | 10 | 49.7 | 1.5 | 6 | 20.5 | |
| 00 | 78.5 | 53 | 15 | 59 | 35 | 10 | 49.7 | 2 | 6 | 30 | |
| 1 | 135 | 71.4 | 20 | 64 | 40 | 10 | 67.5 | 2 | 6 | 40 | |
| 2 | 150 | 71.4 | 25.1 | 72 | 48 | 10 | 67.5 | 2 | 6 | 54 | |
| 3 | 150 | 72.4 | 32 | 87 | 60 | 10 | 68.5 | 2.5 | 6 | 71 | |

Data sheets: 170K6386 (Size 000 and 00), 170K6388 (Size 1), 170K6390 (Size 2), 170K6392 (Size 3)

170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A Catalogue numbers

| | | | | I²t (A² Sec) | | | Catalogue numbers | |
|------------------------|------------------------------------|-------------------------|---------------------------------|--------------|---------------------------|--------------------------------|-------------------|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Max permissible load current | Pre-arcing | Clearing at 690 V a.c. | Watts loss (W) ² | Dual indicator | |
| | | 10 | 10 | 4 | 27 | 2.5 | 170M1558D | |
| | | 16 | 16 | 7 | 51 | 4 | 170M1559D | |
| | | 20 | 20 | 11.5 | 82.5 | 5 | 170M1560D | |
| | | 25 | 25 | 19 | 140 | 6 | 170M1561D | |
| | | 32 | 32 | 40 | 285 | 7 | 170M1562D | |
| | | 40 | 40 | 65 | 490 | 8.5 | 170M1563D | |
| 00 | 690 V a.c. (IEC) | 50 | 50 | 115 | 815 | 9.5 | 170M1564D | |
| JU | 700 V a.c. (UL) | 63 | 63 | 215 | 1550 | 11.5 | 170M1565D | |
| | | 80 | 80 | 380 | 2700 | 15 | 170M1566D | |
| | | 100 | 100 | 695 | 4950 | 16.5 | 170M1567D | |
| | | 125 | 125 | 1180 | 8250 | 21.5 | 170M1568D | |
| | | 160 | 160 | 2300 | 16,500 | 25 | 170M1569D | |
| | | 200 | 200 | 4350 | 31,000 | 29.5 | 170M1570D | |
| | | 250 | 250 | 7900 | 56,000 | 35.5 | 170M1571D | |
|) | 690 V a.c. (IEC) / 700 V a.c. (UL) | 315 | 315 | 12,000 | 84,500 | 45 | 170M1572D | |
| | | 40 | 25 | 40 | 285 | 4 | 170M3808D | |
| | | 50 | 30 | 78 | 550 | 4.5 | 170M3809D | |
| | | 63 | 38 | 120 | 850 | 6.5 | 170M3810D | |
| | | 80 | 50 | 185 | 1350 | 8.5 | 170M3811D | |
| | | 100 | 60 | 360 | 2600 | 10 | 170M3812D | |
| 1 | | 125 | 75 | 550 | 3900 | 11 | 170M3813D | |
| | | 160 | 95 | 1150 | 8250 | 12 | 170M3814D | |
| | | 200 | 120 | 2300 | 16,500 | 12.5 | 170M3815D | |
| | 690 V a.c. (IEC) | 250 | 150 | 4350 | 31,000 | 16 | 170M3816D | |
| | 700 V a.c. (UL) | 315 | 190 | 7300 | 52,000 | 20 | 170M3817D | |
| | | 350 | 210 | 10,000 | 73,000 | 21.5 | 170M3818D | |
| | | 400 | 240 | 16,000 | 115,000 | 21.5 | 170M3819D | |
| | | 450 | 240 | 21,500 | 155,000 | 26.5 | 170M4863D | |
| | | | | | | | | |
| | | 500 | 300 | 27,000 | 190,000 | 28.5 | 170M4864D | |
| | | 550 | 330 | 33,500 | 240,000 | 33 | 170M4865D | |
| | | 630 | 380 | 48,500 | 345,000 | 37.5 | 170M4866D | |
| | | 700 | 420 | 69,500 | 495,000 | 39 | 170M4867D1 | |
| | | 400 | 240 | 11,000 | 79,000 | 29 | 170M5808D | |
| | | 450 | 270 | 16,000 | 115,000 | 32 | 170M5809D | |
| | | 500 | 300 | 21,500 | 155,000 | 34 | 170M5810D | |
| | 000.)/ ((50) | 550 | 330 | 29,000 | 215,000 | 36 | 170M5811D | |
| | 690 V a.c. (IEC) | 630 | 380 | 41,000 | 295,000 | 42 | 170M5812D | |
| | 700 V a.c. (UL) | 700 | 420 | 60,500 | 430,000 | 43 | 170M5813D | |
| | | 800 | 480 | 86,000 | 610,000 | 48 | 170M5814D | |
| | | 900 | 540 | 125,000 | 895,000 | 52 | 170M5820D | |
| | | 1000 | 600 | 180,000 | 1,300,000 | 53 | 170M5816D | |
| | | 1100 | 660 | 245,000 | 1,750,000 | 56 | 170M5817D | |
| | | 500 | 300 | 14,000 | 99,500 | 43 | 170M6808D | |
| | | 550 | 330 | 19,500 | 140,000 | 44 | 170M6809D | |
| | | 630 | 380 | 31,000 | 220,000 | 45 | 170M6810D | |
| | | 700 | 420 | 45,000 | 320,000 | 46 | 170M6811D | |
| | | 800 | 480 | 69,500 | 490,000 | 48 | 170M6812D | |
| | 690 V a.c. (IEC) | 900 | 540 | 100,000 | 720,000 | 50 | 170M6813D | |
| | 700 V a.c. (UL) | 1000 | 600 | 140,000 | 985,000 | 56 | 170M6814D | |
| | 700 V a.c. (UL) | 1100 | 660 | 190,000 | 1,400,000 | 57 | 170M6892D | |
| | | 1250 | 750 | 300,000 | 2,150,000 | 61 | 170M8554D | |
| | | 1400 | 840 | 380,000 | 2,700,000 | 70 | 170M8555D | |
| | | 1500 | 900 | 470,000 | 3,350,000 | 72 | 170M8556D | |
| | | .000 | 000 | 170,000 | 0,000,000 | 1 4 | 170101000000 | |

¹ 170M4867D is not UL recognised.

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² Given at maximum load Rated current, please refer to data sheets for further details.

Data sheets: 170K6386 (Size 000 and 00), 170K6388 (Size 1), 170K6390 (Size 2), 170K6392 (Size 3)

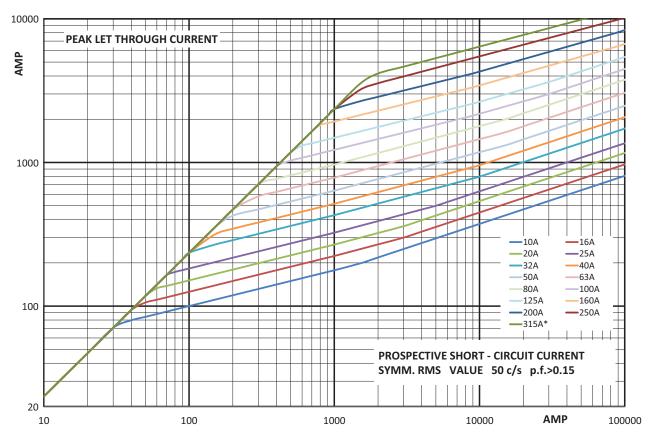
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

10000 The pre-arcing characteristic shows the virtual pre-arcing time as a function of the prospective short-circuit current (Symm r.m.s value) according to IEC 60269-1 The fuses are for short-circuit protection and operation at currents resulting in pre-arcing times longer than t_A indicated at A on the curves, must be avoided. 1000 100 A -10A 16A -20A -25A 10 32A А Virtual Pre-arcing Time (Seconds) -40A -50A 63A -80A -100A 1 125A -160A -200A 250A -315A* 0.1 0.01 0.001 0.0001 100 IOUO Prospective Current in Ampere r.m.s. 10 10000 K_b = 1 N = 1.6

Time-current curve - Sizes 000 and 00, 10 A to 315 A

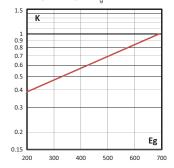
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Cut-off curve - Sizes 000 amd 00, 10 A to 315 A



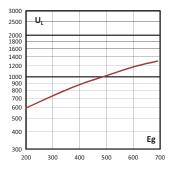
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



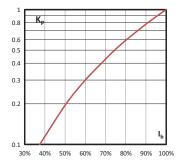
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

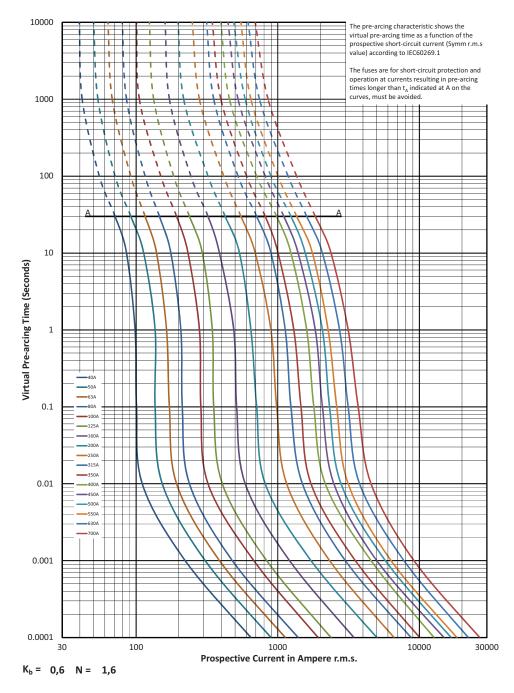
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6386 (Size 000 and 00), 170K6388 (Size 1), 170K6390 (Size 2), 170K6392 (Size 3)

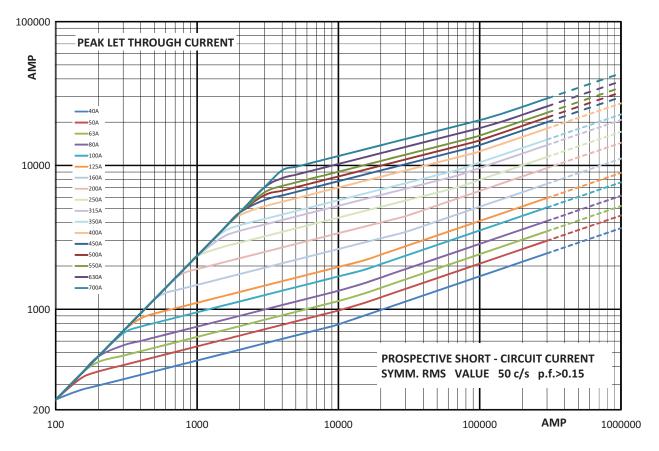
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Time-current curve - Size 1, 40 A to 700 A



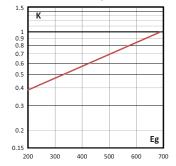
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Cut-off curve - Size 1, 40 A to 700 A



Total clearing l²t

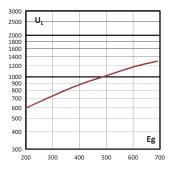
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



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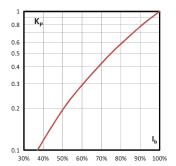
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

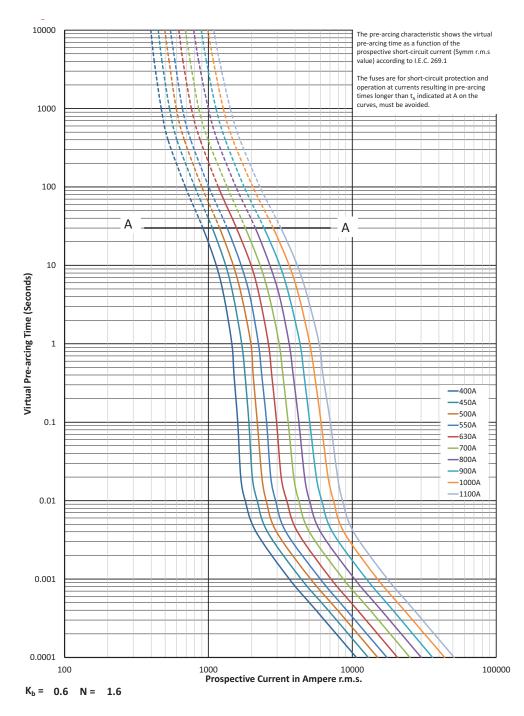
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6386 (Size 000 and 00), 170K6388 (Size 1), 170K6390 (Size 2), 170K6392 (Size 3)

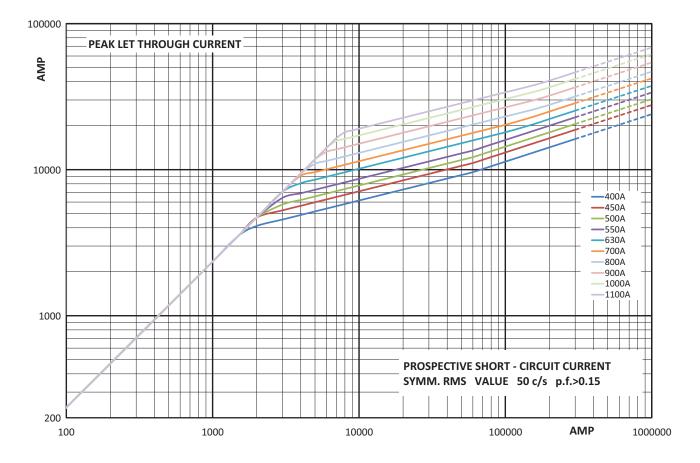
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Time-current curve - Size 2, 400 A to 1100 A



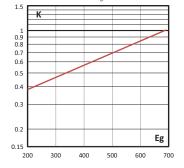
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Cut-off curve - Size 2, 400 A to 1100 A



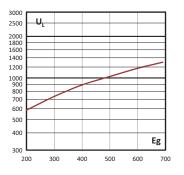
Total clearing l²t

The total clearing l²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



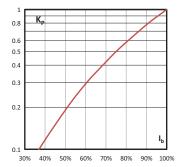
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6386 (Size 000 and 00), 170K6388 (Size 1), 170K6390 (Size 2), 170K6392 (Size 3)

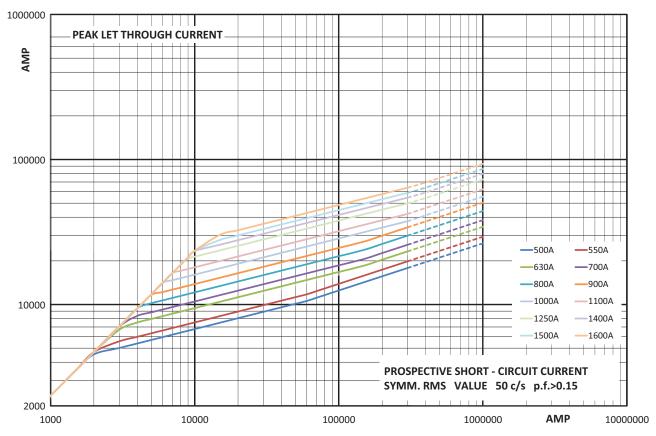
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

10000 The pre-arcing characteristic shows the virtual pre-arcing time as a function of the prospective short-circuit current (Symm r.m.s value) according to I.E.C. 269.1 The fuses are for short-circuit protection and operation at currents resulting in pre-arcing times longer than t_A indicated at A on the curves, must be avoided. 1000 100 А А 10 Virtual Pre-arcing Time (Seconds) 500A -550A -630A 700A 1 800A 900A -1000A -1100A 1250A 1400A 1500A 1600A 0.1 0.01 0.001 0.0001 100 100000 1000 10000 Prospective Current in Ampere r.m.s. K_b = 0.6 N = 1.6

Time-current curve - Size 3, 500 A to 1600 A

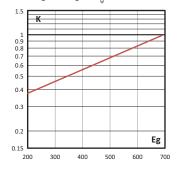
170M - Sizes 000 to 3, DIN 43620, Dual indicator fuse links, 690 V a.c. (IEC), 700 V a.c. (UL), 10 A to 1600 A

Cut-off curve - Size 3, 500 A to 1600 A



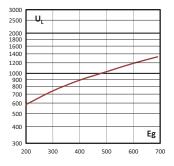
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



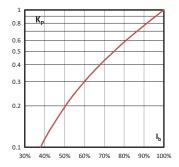
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K6386 (Size 000 and 00), 170K6388 (Size 1), 170K6390 (Size 2), 170K6392 (Size 3)

170M - Size 00, DIN 43620, 1000 V a.c. (IEC and UL), 20 A to 225 A

Specifications

Description

Square body DIN 43620 blade style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 1000 V a.c. (IEC and UL)
- 900 V a.c. (200 A and 225A)
- Rated current: 20 A to 225 A
- Breaking capacity: 125kA RMS Sym
- Operating class: aR

Standards / Agency information

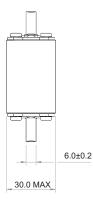
CE, Designed and tested to IEC60269 Part 4, UL Recognised/CSA Component Acceptance status (20 A to 160 A)

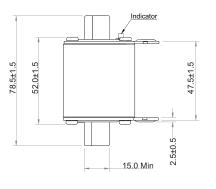
Catalogue numbers

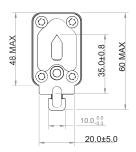


| | | | I²t (A² Sec) | | | Catalogue numbers | |
|------------------------|-------------------------|------------------------|--------------|----------------------------|-------------------|----------------------------|--|
| Fuse link body size | Rated voltage | Rated current Amps) | Pre-arcing | Clearing at 1000 V a.c. | Watts loss (W) | Type T indicator for micro | |
| | | 20 | 15 | 110 | 8.5 | 170M2673 | |
| | | 25 | 28.5 | 210 | 9.5 | 170M2674 | |
| | | 32 | 53 | 390 | 11 | 170M2675 | |
| | | 35 | 69 | 500 | 12 | 170M2676 | |
| | | 40 | 105 | 760 | 13 | 170M2677 | |
| 00 | 1000 V a.c. (IEC/UL) | 50 | 215 | 1550 | 14 | 170M2678 | |
| | | 63 | 380 | 2750 | 16 | 170M2679 | |
| | | 80 | 815 | 5900 | 18 | 170M2680 | |
| | | 100 | 1550 | 11,500 | 21 | 170M2681 | |
| | | 125 | 3000 | 22,000 | 23 | 170M2682 | |
| | | 160 | 6250 | 45,000 | 26 | 170M2683 | |
| 00 | 000.1/ (150) | 200 | 12,000 | 86,500 | 31 | 170M2684 | |
| 00 | 900 V a.c. (IEC) | 225 | 18,000 | 115,000 | 33 | 170M2685 | |

Dimensions (mm)

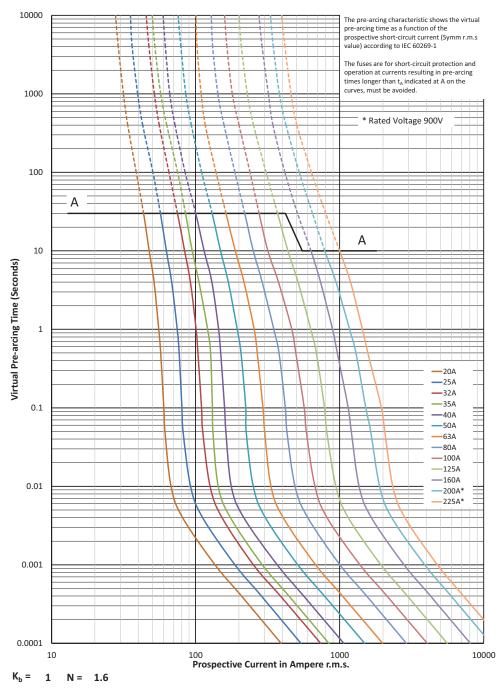






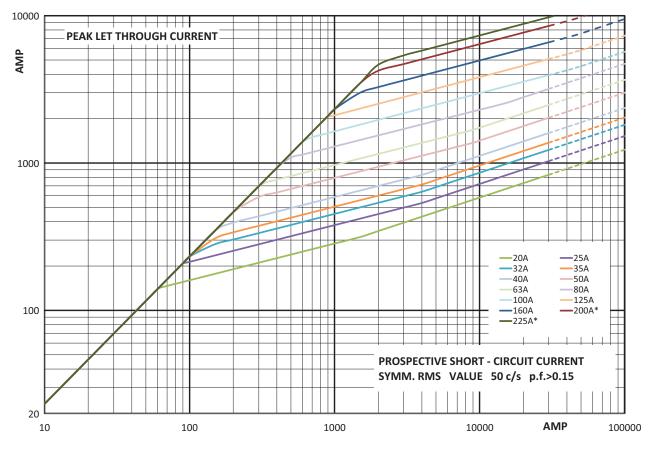
170M - Size 00, DIN 43620, 1000 V a.c. (IEC and UL), 20 A to 225 A

Time-current curve - Size 00, 20 A to 225 A



Data sheet: 170K8506

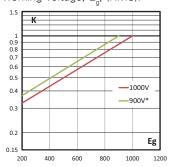
170M - Size 00, DIN 43620, 1000 V a.c. (IEC and UL), 20 A to 225 A



Cut-off curve - Size 00, 20 A to 225 A

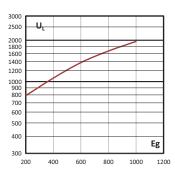
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



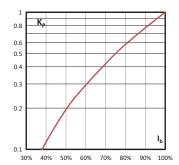
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A

Specifications

Description

Square body French style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

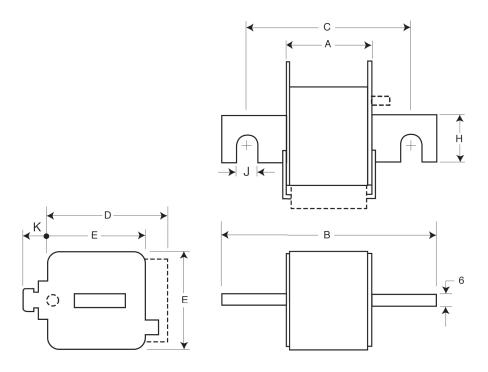
Technical data

- Rated voltage:
 - 690 V a.c. (IEC)
 - 700 V a.c. (UL)
- Rated current: 40 A to 1600 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC60269 Part 4, UL Recognised. For CCC approval, please consult Eaton bulehighspeedtechnical@eaton.com

Dimensions (mm)



| Size | Α | В | C | D | Е | Н | J | К | |
|------|----|-----|----|----|----|----|----|----|--|
| 1* | 50 | 102 | 76 | 59 | 45 | 18 | 9 | 13 | |
| 1 | 50 | 111 | 86 | 69 | 53 | 25 | 11 | 11 | |
| 2 | 50 | 126 | 91 | 77 | 61 | 30 | 13 | 12 | |
| 3 | 51 | 126 | 91 | 92 | 76 | 36 | 13 | 13 | |





EATON Eaton's Bussmann series IEC High speed fuse links catalogue

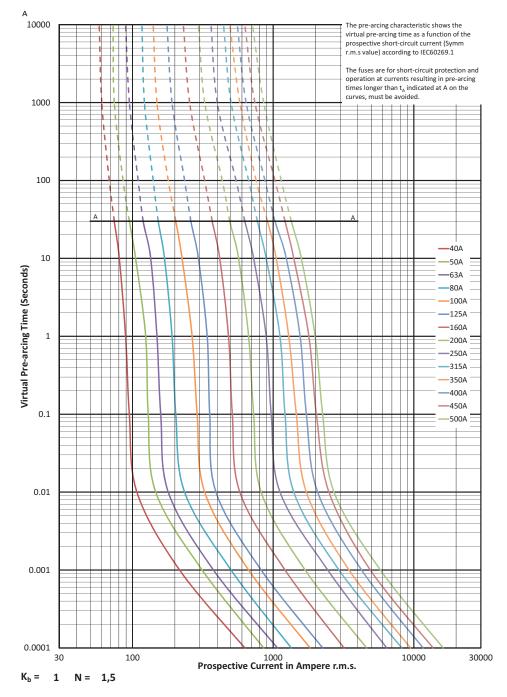
170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A

Catalogue numbers

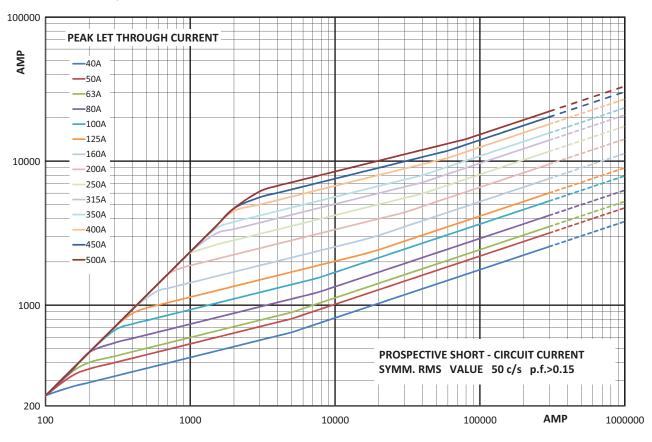
| | | | I²t (A² Sec) | | | Catalogue numbers | |
|------------------------|------------------|-------------------------|--------------|---------------------------|-------------------|------------------------------------|--------------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | -E/- Type T indicator for micro | -EKN/- Type K indicator for micro |
| | | 40 | 40 | 270 | 9 | 170M3308 | 170M3358 |
| | | 50 | 77 | 515 | 11 | 170M3309 | 170M3359 |
| | | 63 | 115 | 770 | 14 | 170M3310 | 170M3360 |
| | | 80 | 185 | 1250 | 18 | 170M3311 | 170M3361 |
| | | 100 | 360 | 2450 | 21 | 170M3312 | 170M3362 |
| | | 125 | 550 | 3700 | 26 | 170M3313 | 170M3363 |
| 1* | 690 V a.c. (IEC) | 160 | 1100 | 7500 | 30 | 170M3314 | 170M3364 |
| I | 700 V a.c.(UL) | 200 | 2200 | 15,000 | 35 | 170M3315 | 170M3365 |
| | | 250 | 4200 | 28,500 | 40 | 170M3316 | 170M3366 |
| | | 315 | 7000 | 46,500 | 50 | 170M3317 | 170M3367 |
| | | 350 | 10,000 | 68,500 | 55 | 170M3318 | 170M3368 |
| | | 400 | 15,000 | 105,000 | 60 | 170M3319 | 170M3369 |
| | | 450 | 21,000 | 140,000 | 65 | 170M3320 | 170M3370 |
| | | 500 | 27,000 | 180,000 | 70 | 170M3321 | 170M3371 |
| | | 200 | 1650 | 11,500 | 45 | 170M4308 | 170M4358 |
| | | 250 | 3100 | 21,000 | 55 | 170M4309 | 170M4359 |
| | | 315 | 6200 | 42,000 | 58 | 170M4310 | 170M4360 |
| | | 350 | 8500 | 59,000 | 60 | 170M4311 | 170M4361 |
| | 222) ((IEQ) | 400 | 13,500 | 91,500 | 65 | 170M4312 | 170M4362 |
| 1 | 690 V a.c. (IEC) | 450 | 17,000 | 120,000 | 70 | 170M4313 | 170M4363 |
| I. | 700 V a.c.(UL) | 500 | 25,000 | 170,000 | 72 | 170M4314 | 170M4364 |
| | | 550 | 34,000 | 230,000 | 75 | 170M4315 | 170M4365 |
| | | 630 | 52,000 | 350,000 | 80 | 170M4316 | 170M4366 |
| | | 700 | 69,500 | 465,000 | 85 | 170M4317 | 170M4367 |
| | | 800 | 105,000 | 725,000 | 95 | 170M4318 | 170M4368 |
| | | 400 | 11,000 | 74,000 | 65 | 170M5308 | 170M5358 |
| | | 450 | 15,500 | 105,000 | 70 | 170M5309 | 170M5359 |
| | | 500 | 21,500 | 145,000 | 75 | 170M5310 | 170M5360 |
| | | 550 | 28,000 | 190,000 | 80 | 170M5310 | 170M5361 |
| 2 | 690 V a.c. (IEC) | | 41,000 | | 90 | | |
| 2 | 700 V a.c.(UL) | 630 700 | • | 275,000 | 90 95 | 170M5312 170M5313 | 170M5362 |
| | | | 60,500 | 405,000 | | | 170M5363 |
| | | 800 | 86,000 | 575,000 | 105 | 170M5314 | 170M5364 |
| | | 900 | 125,000 | 840,000 | 110 | 170M5315 | 170M5365 |
| | | 1000 | 180,000 | 1,250,000 | 115 | 170M5316 | 170M5366 |
| | | 500 | 14,000 | 95,000 | 95 | 170M6308 | 170M6358 |
| | | 550 | 19,500 | 135,000 | 100 | 170M6309 | 170M6359 |
| | | 630 | 31,000 | 210,000 | 105 | 170M6310 | 170M6360 |
| | | 700 | 44,500 | 300,000 | 110 | 170M6311 | 170M6361 |
| | | 800 | 69,500 | 465,000 | 115 | 170M6312 | 170M6362 |
| 3 | 690 V a.c. (IEC) | 900 | 100,000 | 670,000 | 120 | 170M6313 | 170M6363 |
| | 700 V a.c.(UL) | 1000 | 140,000 | 945,000 | 125 | 170M6314 | 170M6364 |
| | | 1100 | 190,000 | 1,300,000 | 130 | 170M6315 | 170M6365 |
| | | 1250 | 290,000 | 1,950,000 | 140 | 170M6316 | 170M6366 |
| | | 1400 | 370,000 | 2,450,000 | 155 | 170M6317 | 170M6367 |
| | | 1500 | 460,000 | 3,100,000 | 160 | 170M6318 | 170M6368 |
| | | 1600 | 580,000 | 3,900,000 | 160 | 170M6319 | 170M6369 |
| | | | | | | | |

170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A

Time-current curve - Size 1*, 40 A to 500 A



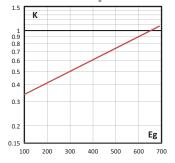
170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A



Cut-off curve - Size 1*, 40 A to 500 A

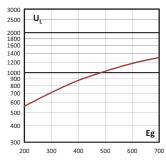
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



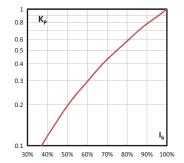
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



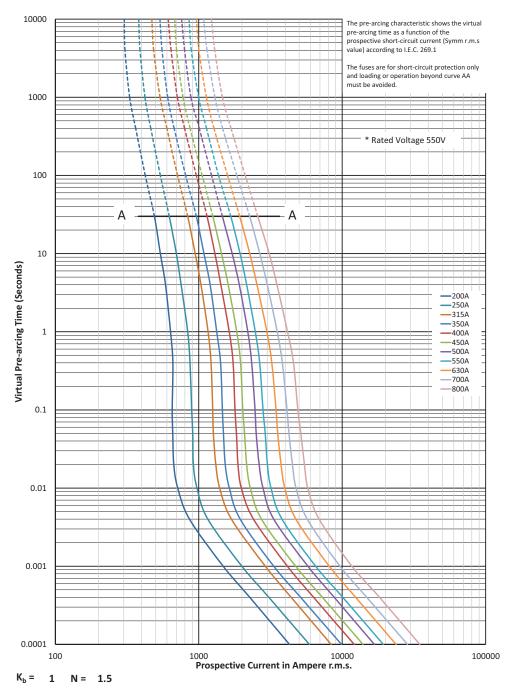
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.

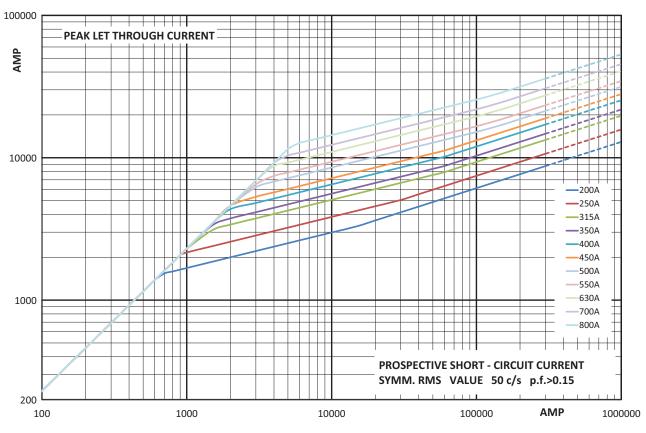


170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A

Time-current curve - Size 1, 200 A to 800 A



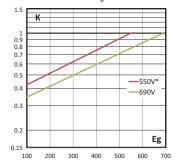
170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A



Cut-off curve - Size 1, 200 A to 800 A

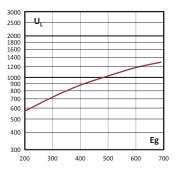
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



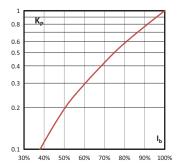
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



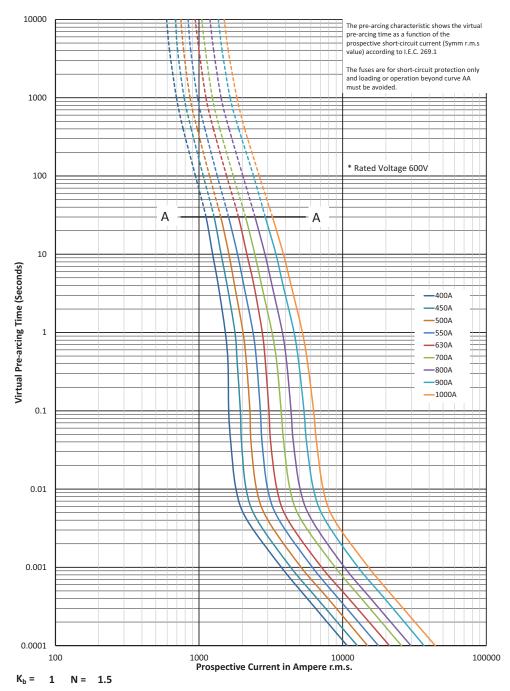
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

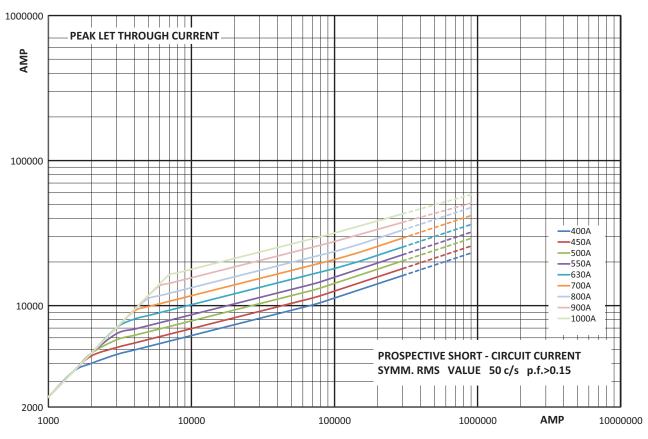


170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A

Time-current curve - Size 2, 400 A to 1000 A



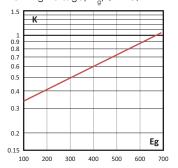
170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A



Cut-off curve - Size 2, 400 A to 1000 A

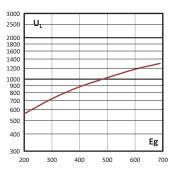
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



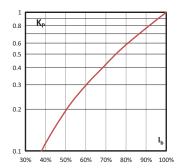
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



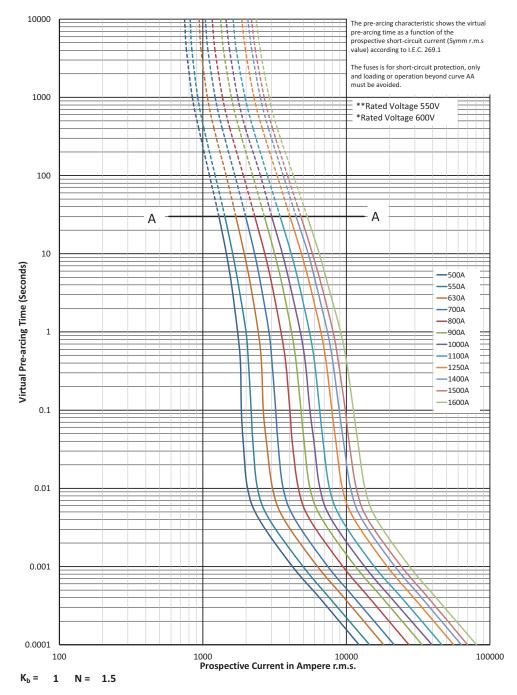
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

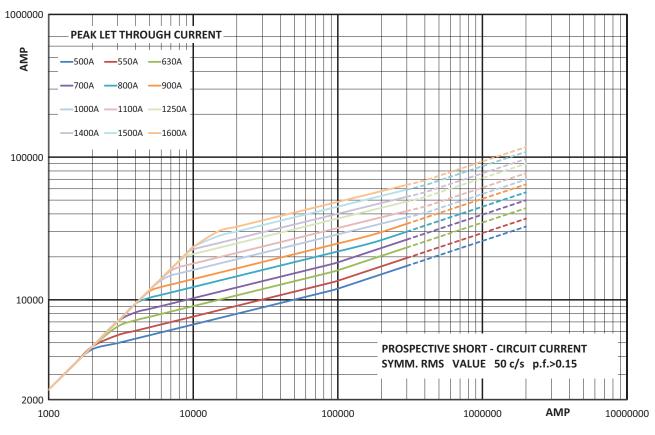


170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A

Time-current curve - Size 3, 500 A to 1600 A



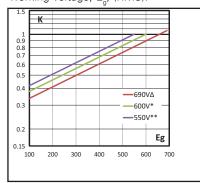
170M - Sizes 1* to 3, French style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 1600 A



Cut-off curve - Size 3, 500 A to 1600 A

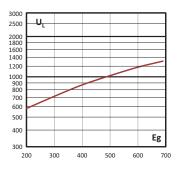
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



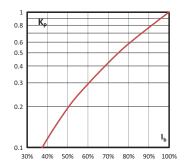
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Specifications

Description

Square body US style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage: see table page 159
- Rated current: 40 A to 2000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

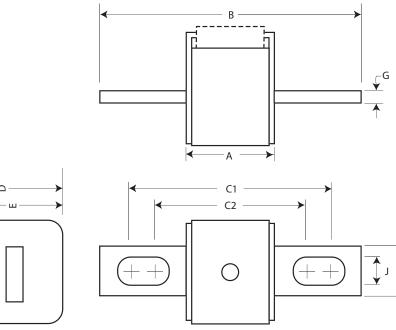
Standards / Agency information

CE, Designed and tested to IEC60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance status and CCC approvals



'n

Dimensions (mm)



| < | — О —— —— ш —— | \rightarrow |
|---|-------------------|---------------|
| | | |
| | | |

| Size | Α | В | B1 | C1 | C1 ¹ | C2 | C2 ¹ | D | E | G | Н | J |
|------|----|-----|-----|-----|------------------------|----|------------------------|----|----|---|----|----|
| 1* | 50 | 110 | 148 | 85 | 123 | 72 | 110 | 59 | 45 | 6 | 20 | 10 |
| 1 | 50 | 136 | 157 | 104 | 126 | 78 | 100 | 69 | 53 | 6 | 25 | 14 |
| 2 | 50 | 135 | 159 | 105 | 125 | 78 | 99 | 77 | 61 | 6 | 25 | 14 |
| 3 | 51 | 135 | 155 | 106 | 125 | 77 | 97 | 92 | 76 | 6 | 36 | 16 |

¹ Valid for fuse links type -FU/115 & -FKE/115. 1mm = 0.0394"

170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

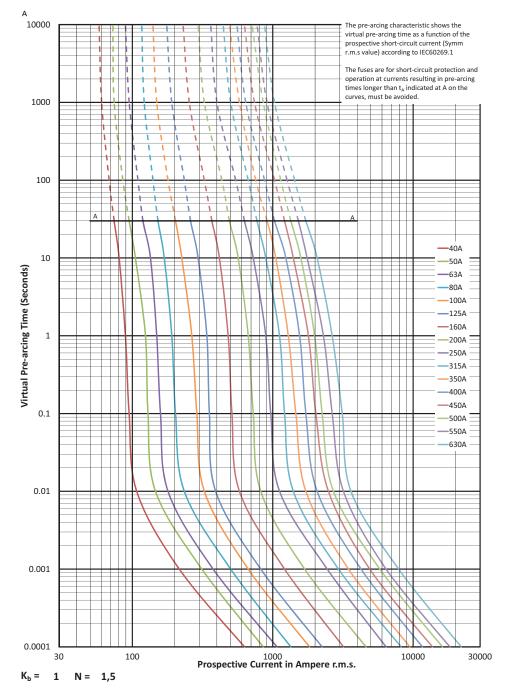
| | | | I²t (A² Sec) | | | Catalogue numbers | | | | |
|------------------------|-------------------------------------|----------------------------|--------------|---------------------------|------------------------|----------------------------|---|------------------------------|---|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | – Watts loss (W) | -FU/- without indicator | -FKE/- Type K indicator for micro | -FU/115 without indicator | -FKE/115 Type K indicator for micro | |
| | | 40 | 40 | 270 | 9 | 170M3608 | 170M3658 | 170M3708 | 170M3758 | |
| | | 50 | 70 | 515 | 11 | 170M3609 | 170M3659 | 170M3709 | 170M3759 | |
| | | 63 | 115 | 770 | 14 | 170M3610 | 170M3660 | 170M3710 | 170M3760 | |
| | | 80 | 185 | 1250 | 18 | 170M3611 | 170M3661 | 170M3711 | 170M3761 | |
| | | 100 | 360 | 2450 | 21 | 170M3612 | 170M3662 | 170M3712 | 170M3762 | |
| | | 125 | 550 | 3700 | 26 | 170M3613 | 170M3663 | 170M3713 | 170M3763 | |
| | | 160 | 1100 | 7500 | 30 | 170M3614 | 170M3664 | 170M3714 | 170M3764 | |
| 1* | 690 V a.c. (IEC) | 200 | 2200 | 15,000 | 35 | 170M3615 | 170M3665 | 170M3715 | 170M3765 | |
| 1 | 700 V a.c. (UL) | 250 | 4200 | 28,500 | 40 | 170M3616 | 170M3666 | 170M3716 | 170M3766 | |
| | | 315 | 7000 | 46,500 | 50 | 170M3617 | 170M3667 | 170M3717 | 170M3767 | |
| | | 350 | 10,000 | 68,500 | 55 | 170M3618 | 170M3668 | 170M3718 | 170M3768 | |
| | | 400 | 15,000 | 105,000 | 60 | 170M3619 | 170M3669 | 170M3719 | 170M3769 | |
| | | 450 | 21,000 | 140,000 | 65 | 170M3620 | 170M3670 | 170M3720 | 170M3770 | |
| | | 500 | 27,000 | 180,000 | 70 | 170M3621 | 170M3671 | 170M3721 | 170M3771 | |
| | | 550 | 34,000 | 230,000 | 75 | 170M3622 | 170M3672 | 170M3722 | 170M3772 | |
| | | 630 | 48,500 | 325,000 | 80 | 170M3623 | 170M3673 | 170M3723 | 170M3773 | |
| | | 200 | 1650 | 11,500 | 45 | 170M4608 | 170M4658 | 170M4708 | 170M4758 | |
| | | 250 | 3100 | 21,000 | 55 | 170M4609 | 170M4659 | 170M4709 | 170M4759 | |
| | | 315 | 6200 | 42,000 | 58 | 170M4610 | 170M4660 | 170M4710 | 170M4760 | |
| | | 350 | 8500 | 59,000 | 60 | 170M4611 | 170M4661 | 170M4711 | 170M4761 | |
| | 000.14 (150) | 400 | 13,500 | 91,500 | 65 | 170M4612 | 170M4662 | 170M4712 | 170M4762 | |
| | 690 V a.c. (IEC) | 450 | 17,000 | 120,000 | 70 | 170M4613 | 170M4663 | 170M4713 | 170M4763 | |
| 1 | 700 V a.c. (UL) | 500 | 25,000 | 170,000 | 72 | 170M4614 | 170M4664 | 170M4714 | 170M4764 | |
| | | 550 | 34,000 | 230,000 | 75 | 170M4615 | 170M4665 | 170M4715 | 170M4765 | |
| | | 630 | 52,000 | 350,000 | 80 | 170M4616 | 170M4666 | 170M4716 | 170M4766 | |
| | | 700 | 69,500 | 465,000 | 85 | 170M4617 | 170M4667 | 170M4717 | 170M4767 | |
| | | 800 | 105,000 | 725,000 | 95 | 170M4618 | 170M4668 | 170M4718 | 170M4768 | |
| | 550 V a.c. (IEC) | 900 | 155,000 | 850,000 | 100 | 170M4619 | 170M4669 | 170M4719 | 170M4769 | |
| | 550 V a.c. (ILC) | 400 | 11,000 | 74,000 | 65 | 170M5608 | 170M5658 | 170M5708 | 170M5758 | |
| | | 400 | 15,500 | 105,000 | 70 | 170M5609 | 170M5659 | 170M5709 | 170M5759 | |
| | | 500 | 21,500 | 145,000 | 75 | 170M5610 | 170M5660 | 170M5710 | 170M5760 | |
| | | 550 | 28,000 | 190,000 | 80 | 170M5611 | 170M5661 | 170M5710 | 170M5761 | |
| | 690 V a.c. (IEC) | 630 | 41,000 | 275,000 | 90 | 170M5612 | 170M5662 | 170M5711 | 170M5762 | |
| 2 | 700 V a.c. (UL) | 700 | 60,500 | 405,000 | 95 | 170M5613 | 170M5663 | 170M5712 | 170M5763 | |
| 2 | | 800 | | | | | 170M5664 | 170M5713 | | |
| | | | 86,000 | 575,000 | 105 | 170M5614 170M5615 | | | 170M5764 | |
| | | 900 | 125,000 | 840,000 | 110 | | 170M5665 | 170M5715 | 170M5765 | |
| | | 1000 | 180,000 | 1,250,000 | 115 | 170M5616 | 170M5666 | 170M5716 | 170M5766 | |
| | 600 V a.c. (IEC) 700 V a.c. (UL) | 1100 | 245,000 | 1,600,000 | 120 | 170M5617 | 170M5667 | 170M5717 | 170M5767 | |
| | 700 V a.c. (OL) | 1250 | 365,000 | 2,400,000 | 130 | 170M5618 | 170M5668 | 170M5718 | 170M5768 | |
| | | 500 | 14,000 | 95,000 | 95 | 170M6608 | 170M6658 | 170M6708 | 170M6758 | |
| | | 550 | 19,500 | 135,000 | 100 | 170M6609 | 170M6659 | 170M6709 | 170M6759 | |
| | | 630 | 31,000 | 210,000 | 105 | 170M6610 | 170M6660 | 170M6710 | 170M6760 | |
| | | 700 | 44,500 | 300,000 | 110 | 170M6611 | 170M6661 | 170M6711 | 170M6761 | |
| | | 800 | 69,500 | 465,000 | 115 | 170M6612 | 170M6662 | 170M6712 | 170M6762 | |
| | 690 V a.c. (IEC) | 900 | 100,000 | 670,000 | 120 | 170M6613 | 170M6663 | 170M6713 | 170M6763 | |
| | 700 V a.c. (UL) | 1000 | 140,000 | 945,000 | 125 | 170M6614 | 170M6664 | 170M6714 | 170M6764 | |
| 3 | | 1100 | 190,000 | 1,300,000 | 130 | 170M6615 | 170M6665 | 170M6715 | 170M6765 | |
| | | 1250 | 290,000 | 1,950,000 | 140 | 170M6616 | 170M6666 | 170M6716 | 170M6766 | |
| | | 1400 | 370,000 | 2,450,000 | 155 | 170M6617 | 170M6667 | 170M6717 | 170M6767 | |
| | | 1500 | 460,000 | 3,100,000 | 160 | 170M6618 | 170M6668 | 170M6718 | 170M6768 | |
| | | 1600 | 580,000 | 3,900,000 | 160 | 170M6619 | 170M6669 | 170M6719 | 170M6769 | |
| | 600 V a.c. (IEC) 550 V a.c. (UL) | 1800 | 880,000 | 5,250,000 | 165 | 170M6620 ³ | 170M6670 ¹ | 170M6720 ³ | 170M6770 | |
| | 550 V a.c.(IEC) 500 V a.c. (UL) | 2000 | 1,150,000 | 6,350,000 | 175 | 170M6621 | 170M6671 ² | 170M6721 | 170M6771 | |

¹ 170M6670 600 V a.c. (UL)/550 V a.c. (IEC) ² 170M6671 550 V a.c. (IEC and UL) ³ Rated at 750 V d.c.12XIn 130 kA when two fuses are connected in series Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

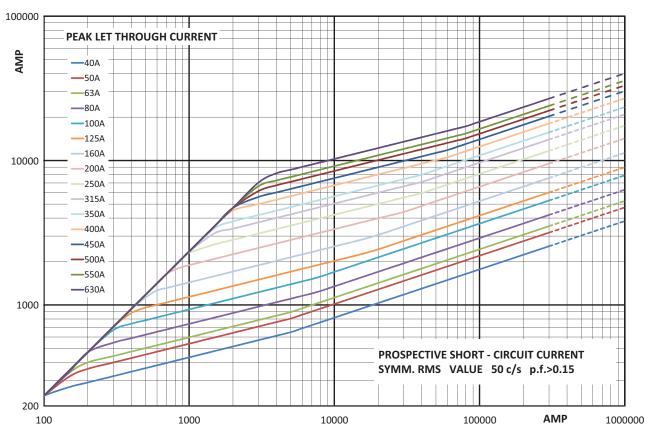
EATON Eaton's Bussmann series IEC High speed fuse links catalogue

170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1*, 40 A to 630 A



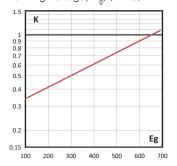
170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 1*, 40 A to 630 A

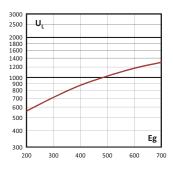
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



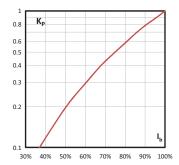
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



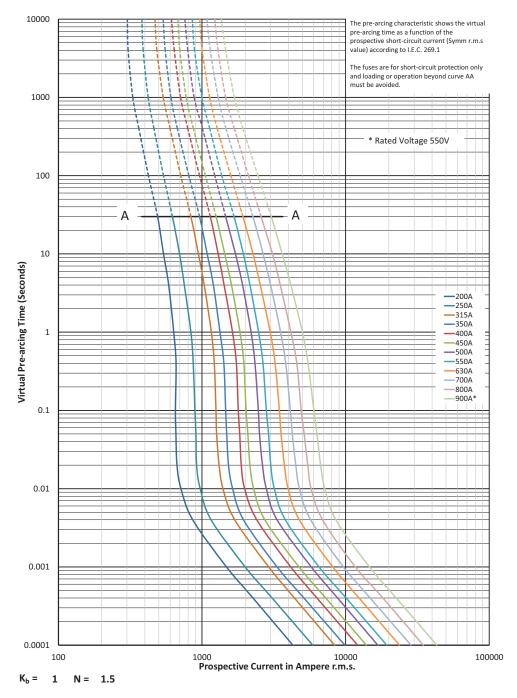
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

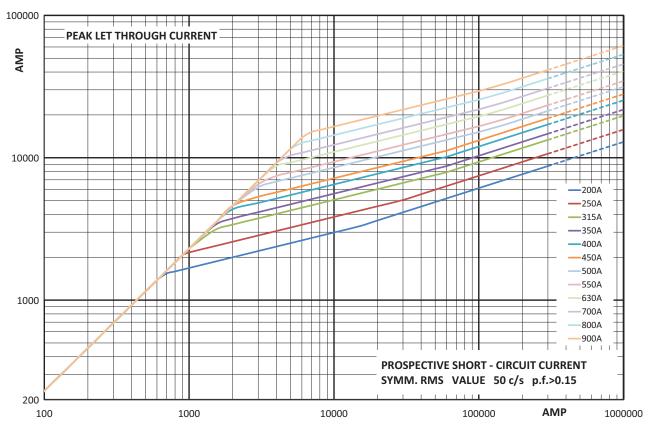


170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1, 200 A to 900 A



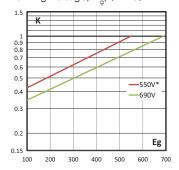
170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 1, 200 A to 900 A

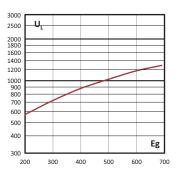
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



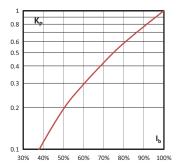
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



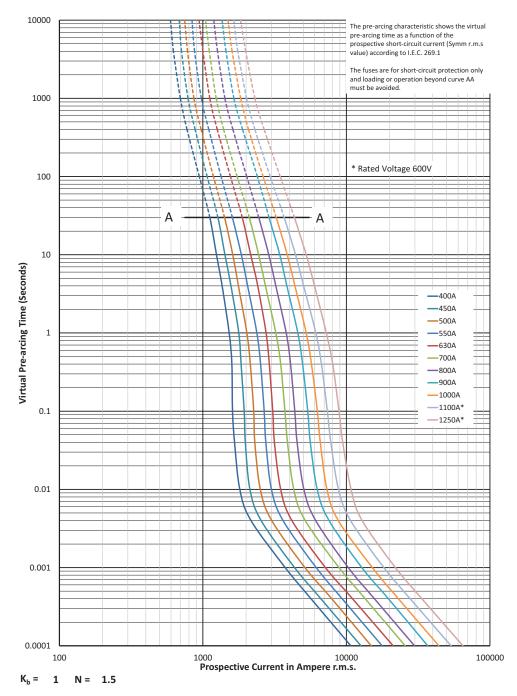
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

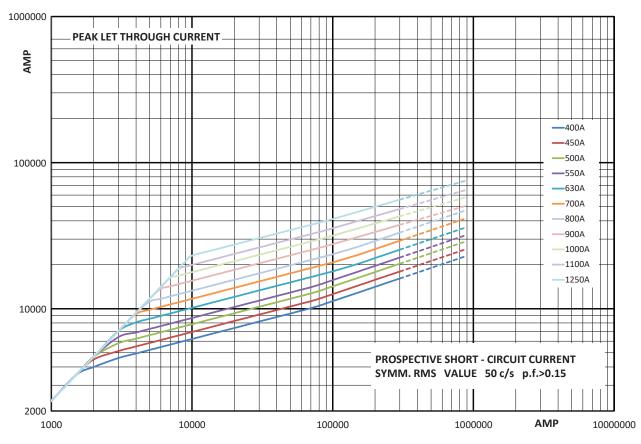


170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 2, 400 A to 1250 A



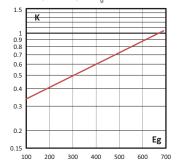
170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 2, 400 A to 1250 A

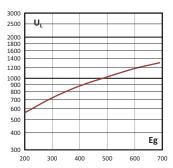
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



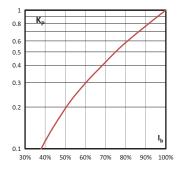
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



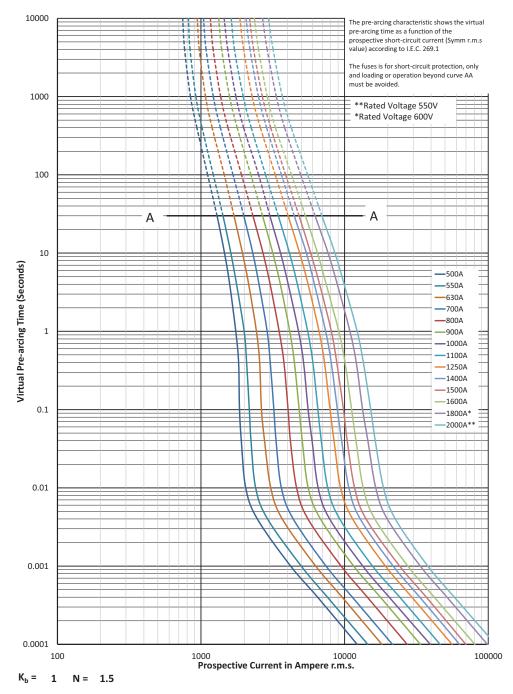
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.

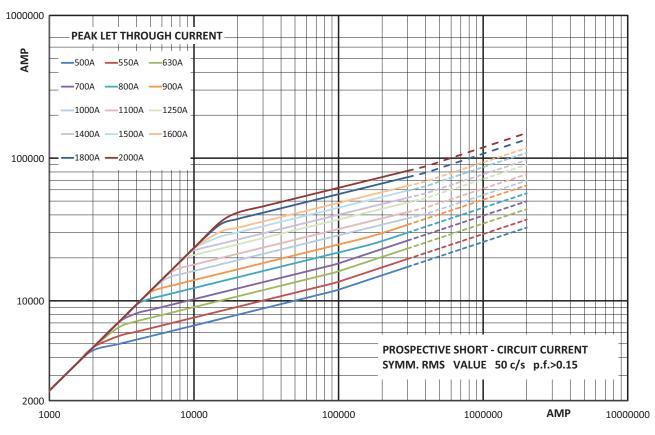


170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 3, 500 A to 2000 A



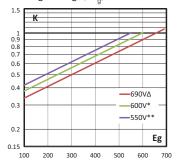
170M - Sizes 1* to 3, US style, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A



Cut-off curve - Size 3, 500 A to 2000 A

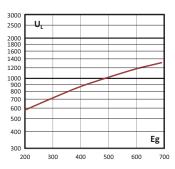
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



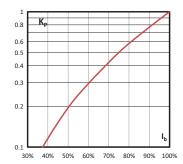
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A

Specifications

Description

Square body US style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters/ rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage: 1000 V a.c. (IEC)
- Rated current: 50 A to 1400 A
- Breaking capacity:
 - 125kA RMS Sym. A.C.
 - Size 1 750 V d.c. 50 kA IR
- Operating class: aR

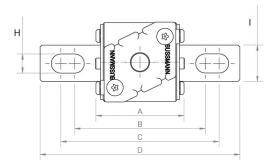
Dimensions (mm)

Standards / Agency information

CE, Designed and tested to IEC60269 Part 4. UL Recognised/CSA Component Acceptance status for size 2 and 3 (315 A to 1100 A) and CCC approval for size 2 only.



ADAPTER



| Size | Α | В | C | D | F | G | Н | I. | К | |
|-----------|----|-------|-------|-----|----|----|------|----|---|--|
| 1*FKE/115 | 74 | 101 | 130 | 156 | 43 | 60 | 10.4 | 20 | 6 | |
| 1FKE/115 | 76 | 102 | 128 | 160 | 51 | 68 | 14.3 | 25 | 6 | |
| 2FKE/115 | 76 | 101.1 | 127.5 | 160 | 59 | 76 | 14.4 | 25 | 6 | |
| 3FKE/115 | 76 | 101.1 | 127.5 | 158 | 74 | 91 | 16 | 36 | 6 | |

1mm = 0.0394''

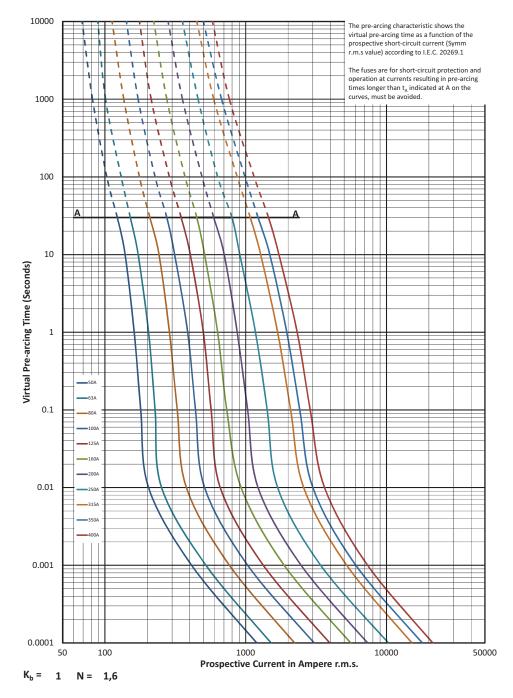
170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A

Catalogue numbers

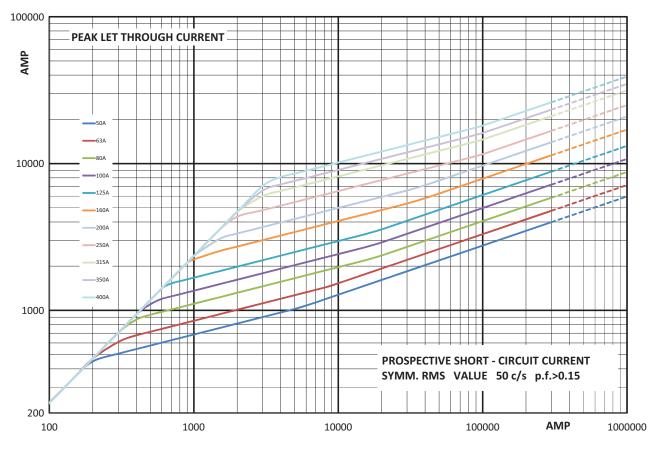
| | | | I²t (A² Sec) | | | Catalogue numbers |
|------------------------|-------------------------------|-------------------------|--------------|----------------------------|-------------------|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1000 V a.c. | Watts loss (W) | -FKE/115 Type K indicator for micro |
| | | 50 | 135 | 815 | 20 | 170M3531 |
| | | 63 | 215 | 1300 | 25 | 170M3532 |
| | | 80 | 460 | 2750 | 30 | 170M3533 |
| | | 100 | 860 | 5100 | 35 | 170M3534 |
| | | 125 | 1450 | 8600 | 40 | 170M3535 |
| 1* | 1000 V a.c. (IEC) | 160 | 2850 | 17,500 | 45 | 170M3536 |
| | | 200 | 4950 | 29,500 | 50 | 170M3537 |
| | | 250 | 9550 | 57,000 | 55 | 170M3538 |
| | | 315 | 21,500 | 130,000 | 65 | 170M3539 |
| | | 350 | 29,000 | 175,000 | 70 | 170M3540 |
| | | 400 | 42,000 | 250,000 | 75 | 170M3541 |
| | | 160 | 2200 | 13,500 | 40 | 170M4531 |
| | | 200 | 4150 | 24,500 | 50 | 170M4532 |
| | | 250 | 7750 | 46,000 | 55 | 170M4533 |
| | | 315 | 16,500 | 98,500 | 65 | 170M4534 |
| | 1000 V a.c. (IEC) | 350 | 21,500 | 130,000 | 70 | 170M4535 |
| | 1000 V a.c. / 750 V d.c. (UL) | 400 | 31,000 | 185,000 | 75 | 170M4536 |
| | | 450 | 44,500 | 265,000 | 80 | 170M4537 |
| | | 500 | 63,000 | 375,000 | 85 | 170M4538 |
| | | 550 | 84,500 | 500,000 | 90 | 170M4539 |
| | | 630 | 125,000 | 755,000 | 98 | 170M4540 |
| | | 250 | 6750 | 40,000 | 65 | 170M5531 |
| | | 315 | 13,500 | 81,500 | 75 | 170M5532 |
| | | 350 | 16,500 | 99,000 | 80 | 170M5533 |
| | | 400 | 26,000 | 155,000 | 85 | 170M5534 |
| | 1000 V a.c. | 450 | 35,500 | 210,000 | 90 | 170M5535 |
| - | (IEC/UL) | 500 | 49,500 | 295,000 | 95 | 170M5536 |
| | | 550 | 66,000 | 390,000 | 100 | 170M5337 |
| | | 630 | 93,500 | 555,000 | 110 | 170M5538 |
| | | 700 | 130,000 | 770,000 | 115 | 170M5539 |
| | | 800 | 195,000 | 1,200,000 | 125 | 170M5540 |
| | | 315 | 9200 | 54,500 | 90 | 170M8531 |
| | | 350 | 13,000 | 77,500 | 95 | 170M8532 |
| | | 400 | 19,000 | 115,000 | 105 | 170M8533 |
| | | 450 | 27,000 | 160,000 | 107 | 170M8534 |
| | | 500 | 37,500 | 225,000 | 110 | 170M8535 |
| | 1000 V a.c. | 550 | 52,000 | 310,000 | 115 | 170M8536 |
| | (IEC/UL) | 630 | 82,500 | 490,000 | 120 | 170M8537 |
| | | 700 | 115,000 | 700,000 | 125 | 170M8538 |
| | | 800 | 170,000 | 1,050,000 | 135 | 170M8539 |
| | | 900 | 250,000 | 1,500,000 | 145 | 170M8540 |
| | | 1000 | 340,000 | 2,050,000 | 150 | 170M8541 |
| | | 1100 | 460,000 | 2,750,000 | 155 | 170M8542 |
| | 1000 V a.c. (IEC) | 1250 | 575,000 | 3,400,000 | 175 | 170M8543 |
| | 900 V a.c. (IEC) | 1400 | 795,000 | 4,200,000 | 185 | 170M8544 |

170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A

Time-current curve - Size 1*, 50 A to 400 A



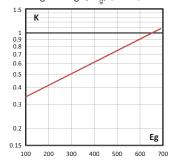
170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A



Cut-off curve - Size 1*, 50 A to 400 A

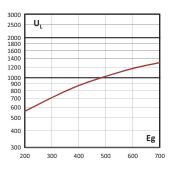
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



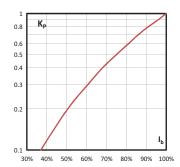
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



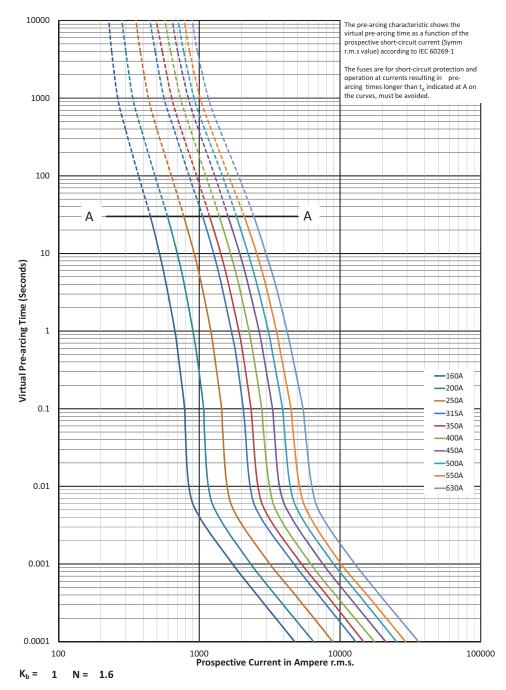
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

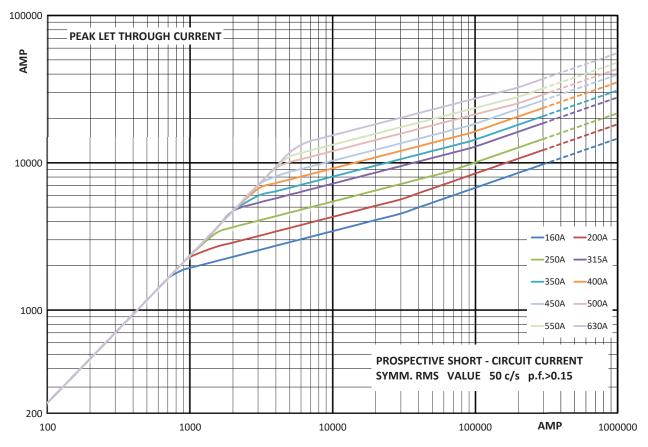


170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



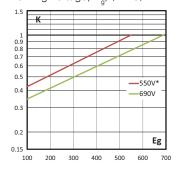
170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A



Cut-off curve - Size 1, 160 A to 630 A

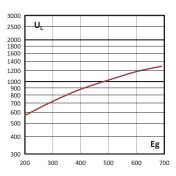
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



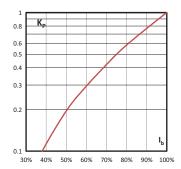
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



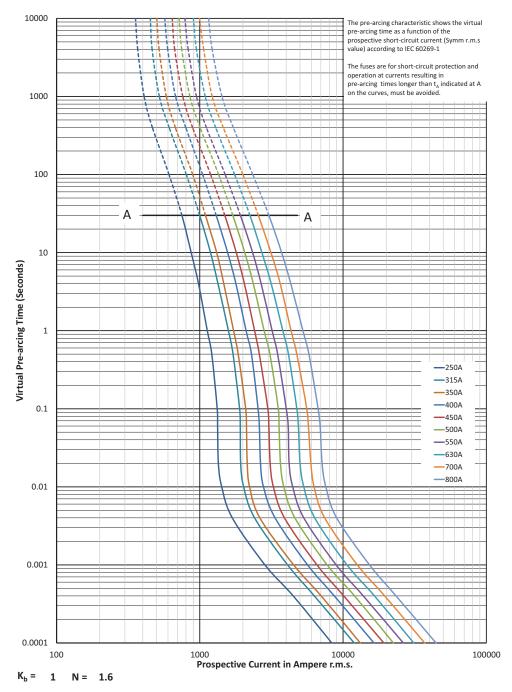
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.

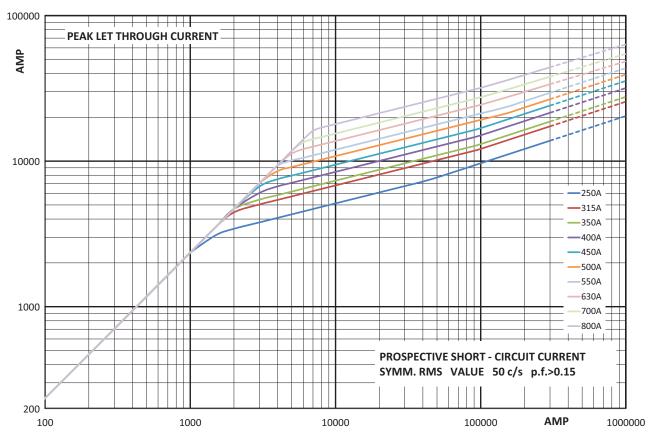


170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 800 A



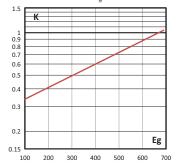
170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A



Cut-off curve - Size 2, 250 A to 800 A

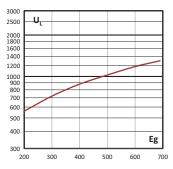
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



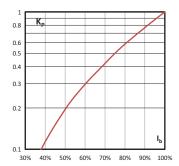
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



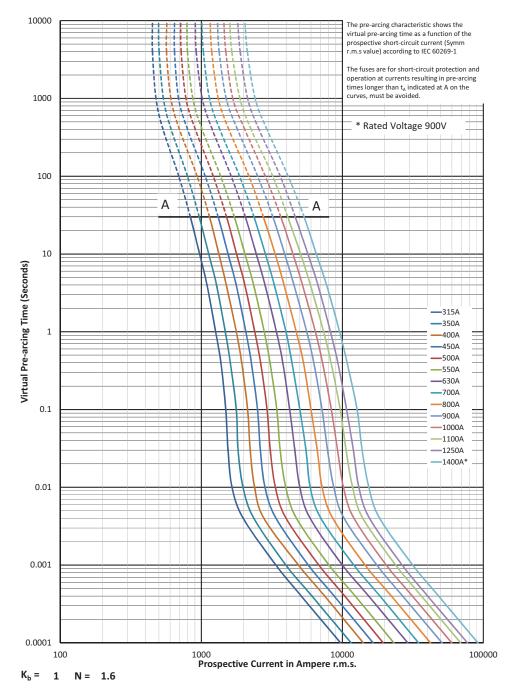
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.

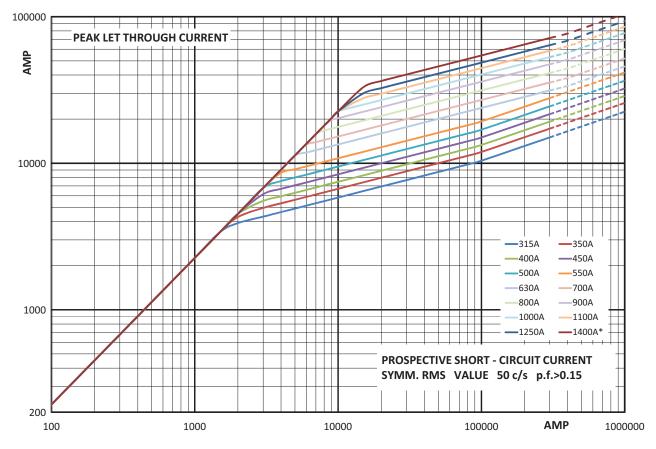


170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A



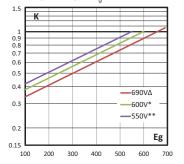
170M - Sizes 1* to 3, US style, 1000 V a.c. (IEC), 50 A to 1400 A



Cut-off curve - Size 3, 315 A to 1400 A

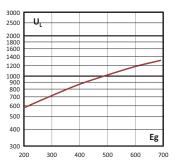
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



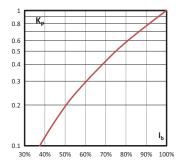
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Specifications

Description

Square body US style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

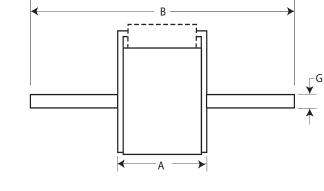
- Rated voltage: 1250 V a.c. (IEC), 1300 V a.c. (UL)
- Rated current: 50 A to 1400 A
- Breaking capacity:
 - 100 kA RMS Sym.A.C.
 - Size 1* 90 kA D.C.
- -Operating class: aR

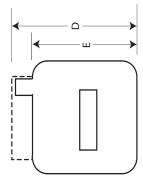
Standards / Agency information

CE, Designed and tested to IEC 60269 part 4. Consult Eaton for UL Recognition/CSA Component Acceptance status and CCC approvals

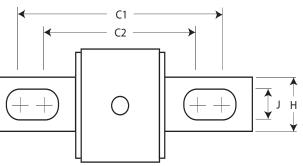
Dimensions (mm)







184



| Size | Α | в | C1 | C2 | D | E | G | н | J |
|------|----|-----|-----|-----|----|----|---|----|----|
| 1* | 74 | 156 | 130 | 101 | 59 | 45 | 6 | 20 | 10 |
| 1 | 76 | 160 | 127 | 102 | 69 | 53 | 6 | 25 | 14 |
| 2 | 76 | 160 | 127 | 102 | 77 | 61 | 6 | 25 | 14 |
| 3 | 76 | 159 | 128 | 101 | 92 | 76 | 6 | 36 | 16 |

170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

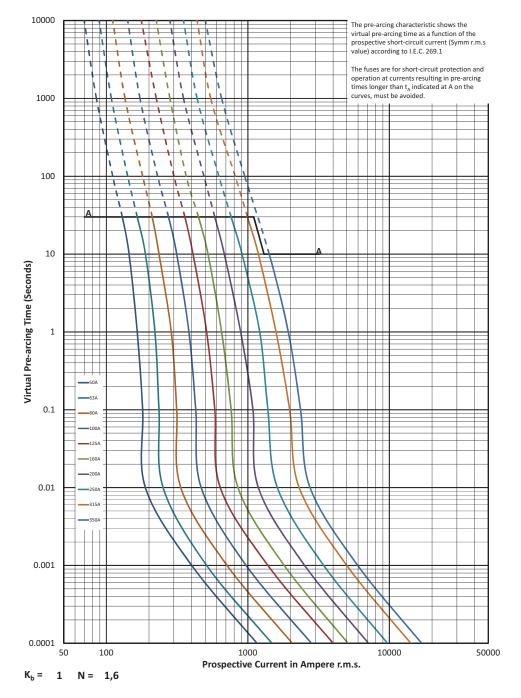
Catalogue numbers

| | | | I²t (A² Sec) | | | | Catalogue numbers | | |
|------------------------|---------------------------------------|-------------------------|--------------|----------------------------|----------------------------|-------------------|------------------------------|--|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1000 V a.c. | Clearing at 1250 V a.c. | Watts loss (W) | -FU/115 without indicator | -FKE/115 Type K indicator for micro | |
| | | 50 | 135 | 815 | 1100 | 15 | 170M36881 | 170M37381 | |
| | | 63 | 215 | 1300 | 1750 | 20 | 170M3689 ¹ | 170M3739 ¹ | |
| | | 80 | 420 | 2500 | 3350 | 25 | 170M36901 | 170M3740 ¹ | |
| | | 100 | 750 | 4450 | 5950 | 30 | 170M36911 | 170M37411 | |
| 1* | 1250 V a.c. (IEC) | 125 | 1450 | 9000 | 11,500 | 35 | 170M36921 | 170M37421 | |
| I | 1300 V a.c. (UL) | 160 | 2600 | 16,000 | 21,000 | 40 | 170M36931 | 170M37431 | |
| | | 200 | 5150 | 31,000 | 41,000 | 45 | 170M36941 | 170M3744 ¹ | |
| | | 250 | 9200 | 54,500 | 73,000 | 55 | 170M36951 | 170M3745 ¹ | |
| | | 315 | 18,500 | 115,000 | 150,000 | 60 | 170M36961 | 170M3746 ¹ | |
| | | 350 | 27,000 | 165,000 | 220,000 | 65 | 170M36971 | 170M3747 ¹ | |
| | | 160 | 1900 | 11,500 | 15,500 | 45 | 170M4688 | 170M4738 | |
| | | 200 | 3800 | 22,500 | 30,000 | 50 | 170M4689 | 170M4739 | |
| | 1250 V a.c. (IEC) | 250 | 7750 | 46,000 | 61,500 | 60 | 170M4690 | 170M4740 | |
| | | 315 | 15,000 | 90,000 | 120,000 | 65 | 170M4691 | 170M4741 | |
| 4 | 1300 V a.c. (UL) | 350 | 20,000 | 125,000 | 165,000 | 70 | 170M4692 | 170M4742 | |
| 1 | | 400 | 29,500 | 175,000 | 235,000 | 75 | 170M4693 | 170M4743 | |
| | | 450 | 42,000 | 250,000 | 335,000 | 80 | 170M4694 | 170M4744 | |
| | 4400.1/ 150 | 500 | 69,500 | 340,000 | N/A | 85 | 170M4695 | 170M4745 | |
| | 1100 V a.c. IEC | 550 | 95,000 | 465,000 | N/A | 95 | 170M4696 | 170M4746 | |
| | 1000 V a.c. IEC | 630 | 130,000 | 660,000 | N/A | 100 | 170M4697 | 170M4747 | |
| | 1250 V a.c. (IEC) 1300 V a.c. (UL) | 250 | 6500 | 38,500 | 51,500 | 65 | 170M5688 | 170M5738 | |
| | | 280 | 9350 | 55,500 | 74,500 | 70 | 170M5689 | 170M5739 | |
| | | 315 | 13,000 | 77,500 | 105,000 | 75 | 170M5690 | 170M5740 | |
| | | 350 | 16,500 | 97,500 | 135,000 | 80 | 170M5691 | 170M5741 | |
| | | 400 | 23,000 | 140,000 | 180,000 | 85 | 170M5692 | 170M5742 | |
| | | 450 | 34,000 | 205,000 | 270,000 | 90 | 170M5693 | 170M5743 | |
| 2 | | 500 | 48,000 | 285,000 | 380,000 | 95 | 170M5694 | 170M5744 | |
| | | 550 | 62,000 | 370,000 | 495,000 | 100 | 170M5695 | 170M5745 | |
| | | 630 | 115,000 | 575,000 | 730,000 | 120 | 170M5696 | 170M5746 | |
| | 4400.1/ 150 | 700 | 160,000 | 795,000 | N/A | 125 | 170M5697 | 170M5747 | |
| | 1100 V a.c. IEC | 800 | 245,000 | 1,200,000 | N/A | 130 | 170M5698 | 170M5748 | |
| | | 900 | 360,000 | 1,750,000 | N/A | 135 | 170M5699 | 170M5749 | |
| | 1000 V a.c. IEC | 1000 | 480,000 | 2,350,000 | N/A | 145 | 170M5700 | 170M5750 | |
| | | 315 | 9500 | 58,000 | 77,500 | 85 | 170M6688 | 170M6738 | |
| | | 350 | 13,500 | 81,500 | 110,000 | 90 | 170M6689 | 170M6739 | |
| | | 400 | 19,500 | 120,000 | 160,000 | 95 | 170M6690 | 170M6740 | |
| | 1250 V a.c.(IEC) | 450 | 31,000 | 185,000 | 245,000 | 100 | 170M6691 | 170M6741 | |
| | 1300 V a.c. (UL) | 500 | 39,000 | 235,000 | 310,000 | 105 | 170M6692 | 170M6742 | |
| | | 550 | 55,000 | 325,000 | 435,000 | 110 | 170M6693 | 170M6743 | |
| | | 630 | 83,500 | 495,000 | 665,000 | 115 | 170M6694 | 170M6744 | |
| 3 | | 700 | 115,000 | 705,000 | 940,000 | 120 | 170M6695 | 170M6745 | |
| | | 800 | 205,000 | 995,000 | 1,300,000 | 125 | 170M6696 | 170M6746 | |
| | 1250 V a.c. (IEC) | 900 | 305,000 | 1,500,000 | 1,900,000 | 130 | 170M6697 | 170M6747 | |
| | 1100 V a.c. (IEC) | 1000 | 450,000 | 2,150,000 | N/A | 135 | 170M6698 | 170M6748 | |
| | 1000 V a.c. (UL) | 1100 | 575,000 | 2,800,000 | N/A | 160 | 170M6699 | 170M6749 | |
| | 1000 V a.c. | 1250 | 810,000 | 3,950,000 | N/A | 170 | 170M6700 | 170M6750 | |
| | IEC & UL | 1400 | 1,250,000 | 6,000,000 | N/A | 175 | 170M6701 | 170M6751 | |
| | | | .,_00,000 | 5,000,000 | | | | | |

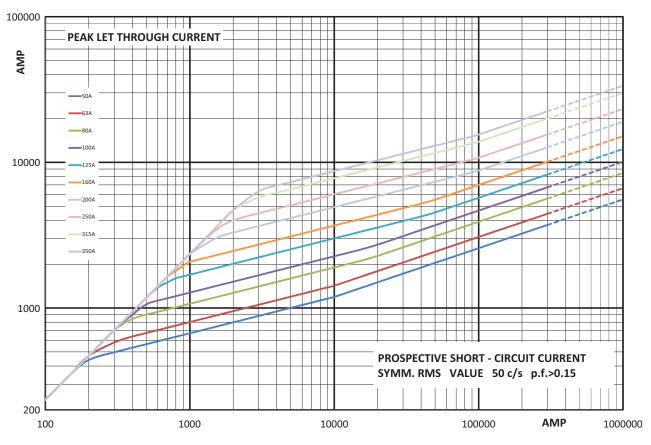
¹ Rated at 900 V d.c. 8XIn 90 kA

170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1*, 50 A to 350 A



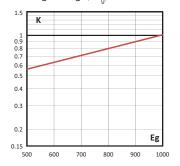
170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A



Cut-off curve - Size 1*, 50 A to 350 A

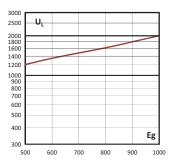
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



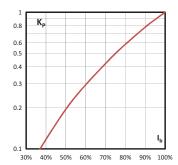
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



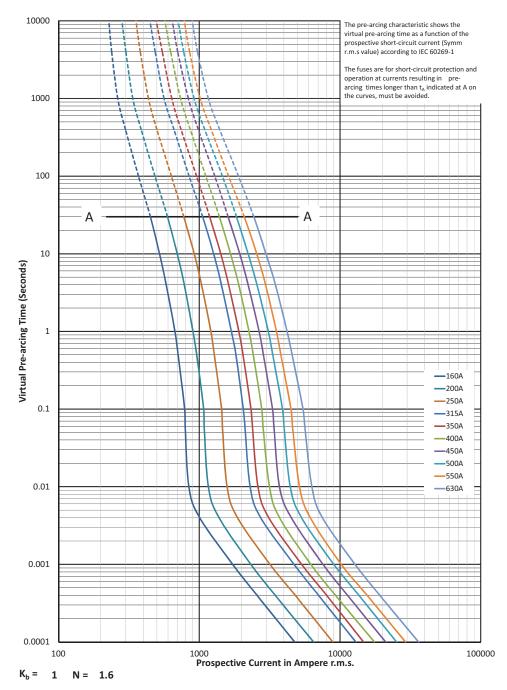
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

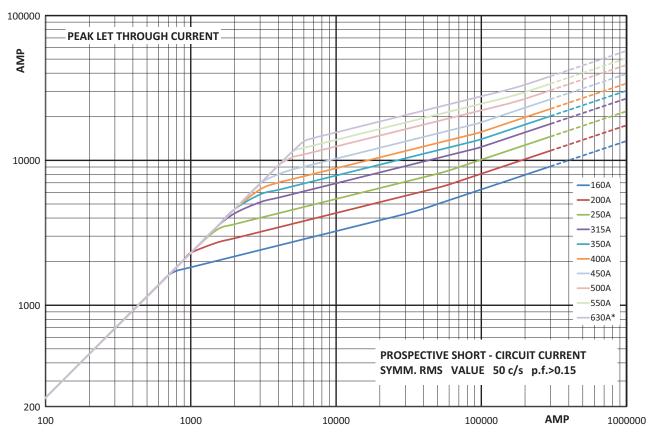


170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



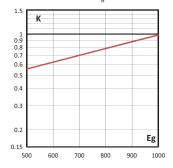
170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A



Cut-off curve - Size 1, 160 A to 630 A

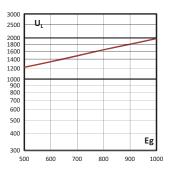
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



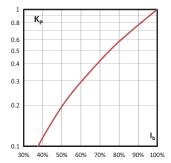
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



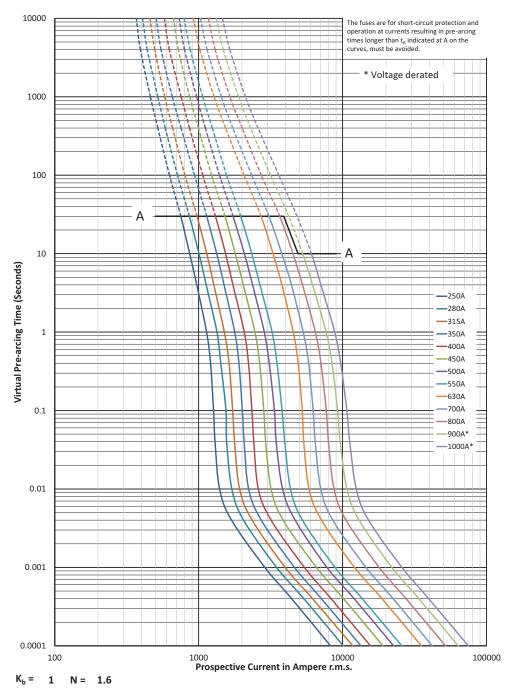
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

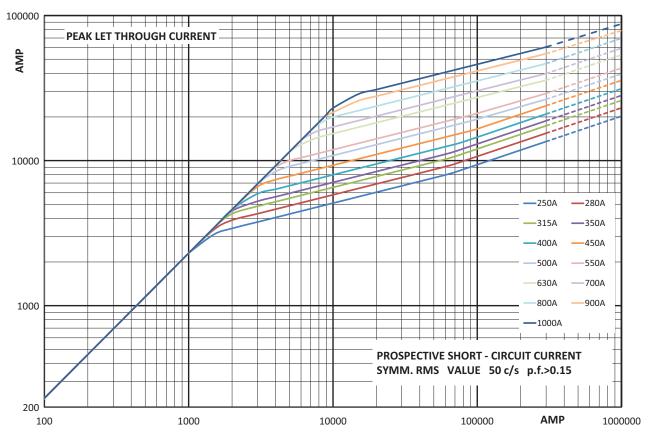


170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 1000 A



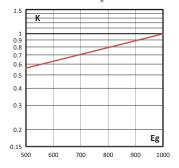
170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A



Cut-off curve - Size 2, 250 A to 1000 A

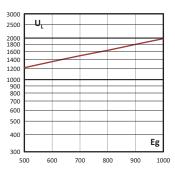
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



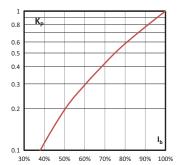
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



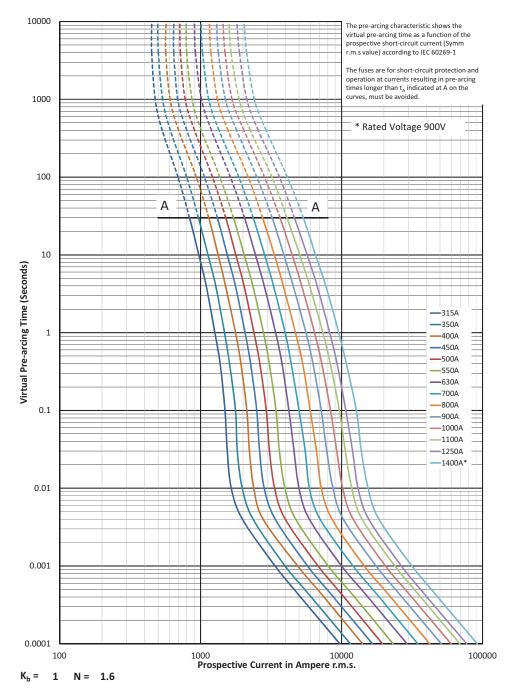
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

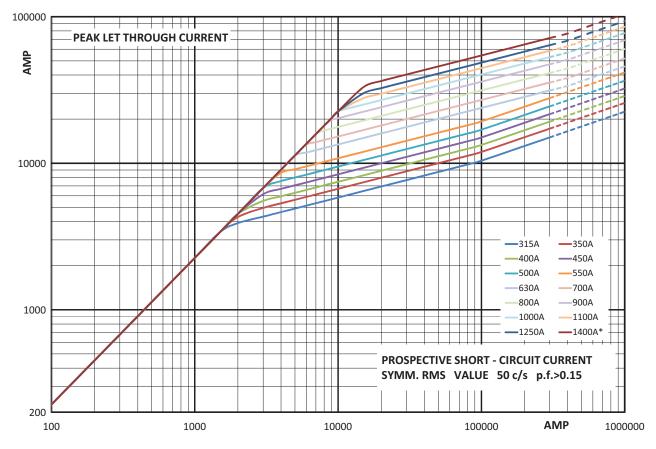


170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A



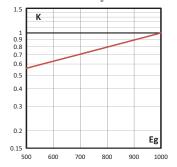
170M - Sizes 1* to 3, US style, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A



Cut-off curve - Size 3, 315 A to 1400 A

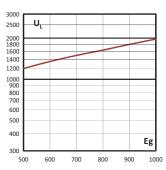
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



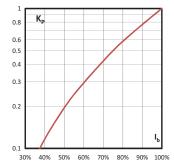
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Size 00, Flush end contact, 690 V a.c., 25 A to 400 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/ rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage: 690 V a.c. (IEC)
- Rated current: 25 A to 400 A
- Breaking capacity: 200 kA RMS Sym
- Operating class:
- gR (25 A to 80 A)
- aR (100 A to 400 A)

Standards / Agency information

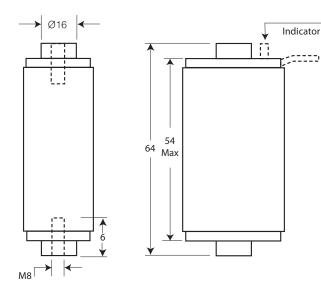
CE, Designed and tested to IEC 60269 Part 4

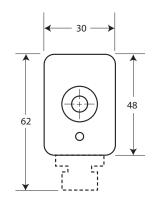
Catalogue numbers



| 0 | inannooro | | l²t (A² Sec) | | | Catalogue numbers | |
|------------------------|------------------|-------------------------|--------------|---------------------------|-------------------|----------------------------|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | 00B/60 visual indicator | 00BTN/60 Type T indicator for micro |
| | | 25 | 19 | 130 | 6 | 170M2708 | 170M2758 |
| | | 32 | 28.5 | 195 | 7 | 170M2709 | 170M2759 |
| | | 40 | 50 | 360 | 9 | 170M2710 | 170M2760 |
| | | 50 | 95 | 640 | 10 | 170M2711 | 170M2761 |
| | | 63 | 170 | 1200 | 12 | 170M2712 | 170M2762 |
| | | 80 | 310 | 2100 | 15 | 170M2713 | 170M2763 |
| 00 | | 100 | 620 | 4150 | 20 | 170M2714 | 170M2764 |
| 00 | 690 V a.c. (IEC) | 125 | 1000 | 6950 | 25 | 170M2715 | 170M2765 |
| | | 160 | 1900 | 13,000 | 30 | 170M2716 | 170M2766 |
| | | 200 | 3400 | 23,000 | 35 | 170M2717 | 170M2767 |
| | | 250 | 6250 | 42,000 | 45 | 170M2718 | 170M2768 |
| | | 315 | 10,000 | 68,500 | 55 | 170M2719 | 170M2769 |
| | | 350 | 13,500 | 91,500 | 60 | 170M2720 | 170M2770 |
| | | 400 | 18,000 | 125,000 | 70 | 170M2721 | 170M2771 |

Dimensions (mm)

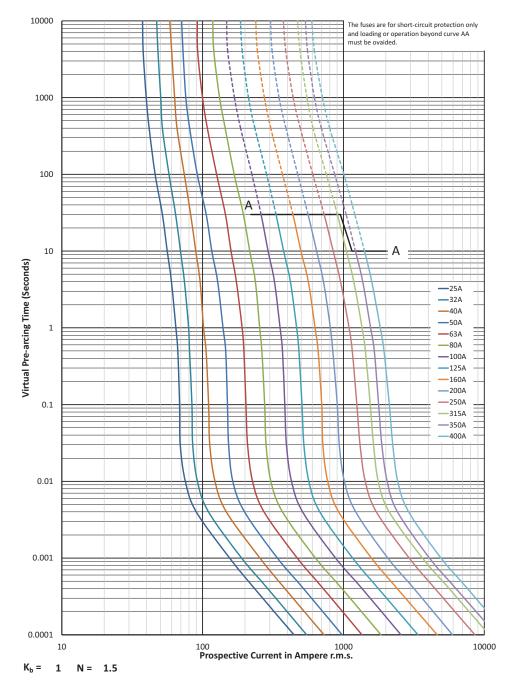




Data sheet: 170K6312

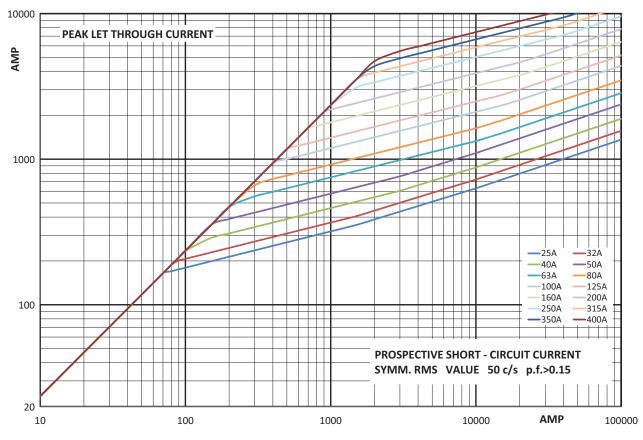
170M - Size 00, Flush end contact, 690 V a.c., 25 A to 400 A

Time-current curve - Size 00, 25 A to 400 A



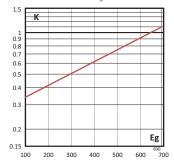
170M - Size 00, Flush end contact, 690 V a.c., 25 A to 400 A

Cut-off curve - Size 00, 25 A to 400 A



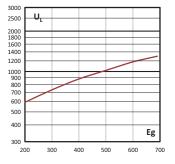
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{α} , (RMS).



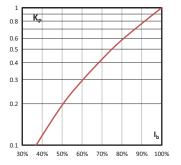
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

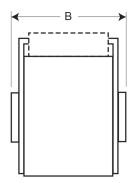
Technical data

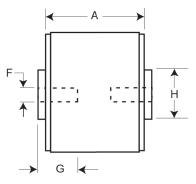
- Rated voltage: see table page 192
- Rated current: 40 A to 2000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

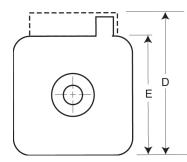
Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4. Consult Eaton for UL Recognition, CSA Component Acceptance Status and CCC approvals

Dimensions (mm)







| Size | Α | в | D ³ | Е | F | F¹ (in) | G min | н |
|------|----|--|----------------|----|-----|---|----------|-----|
| 1* | 50 | 51 | 59 | 45 | M8 | ⁵ / ₁₆ " -18 UNC-2B | 5 | N17 |
| 1 | 50 | 51 | 69 | 53 | M8 | 5/16" -18 UNC-2B | 8 | N20 |
| 2 | 50 | 51 (400 - 1000 A) 65 (1100 and 1250 (A) | 77 | 61 | M10 | 3/8" -16 UNC-2B | 10 | N24 |
| 3 | 51 | 53 (500 - 1500 A) 65 (1600 - 2000 A) | 92 | 76 | M12 | 1⁄2" -13 UNC-2B | 10 | N30 |

¹ Valid for fuse links type -G- & -GKN/.

 $^{\scriptscriptstyle 3}$ Valid for fuse links type -BKN/ and -GKN/.



170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

| | | | l²t (A² Sec) | | | Catalogue nu | | | |
|------------------------|---------------------------------------|-------------------------|--------------|---------------------------|-------------------|--------------------------|---|--------------------------|---|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | -B/- visual indicator | -BKN/- Type K indicator for micro | -G/- visual indicator | -GKN/- Type K indicator for micro |
| | | 40 | 40 | 270 | 11 | 170M3408 | 170M3458 | 170M3508 | 170M3558 |
| | | 50 | 77 | 515 | 13 | 170M3409 | 170M3459 | 170M3509 | 170M3559 |
| | | 63 | 115 | 770 | 17 | 170M3410 | 170M3460 | 170M3510 | 170M3560 |
| | | 80 | 185 | 1250 | 21 | 170M3411 | 170M3461 | 170M3511 | 170M3561 |
| | | 100 | 360 | 2450 | 24 | 170M3412 | 170M3462 | 170M3512 | 170M3562 |
| | | 125 | 550 | 3700 | 30 | 170M3413 | 170M3463 | 170M3513 | 170M3563 |
| | | 160 | 1100 | 7500 | 34 | 170M3414 | 170M3464 | 170M3514 | 170M3564 |
| 4 × | 690 V a.c. (IEC) | 200 | 2200 | 15,000 | 41 | 170M3415 | 170M3465 | 170M3515 | 170M3565 |
| 1* | 700 V a.c. (UL) | 250 | 4200 | 28,500 | 47 | 170M3416 | 170M3466 | 170M3516 | 170M3566 |
| | /00 / 0.0. (02) | 315 | 7000 | 46,500 | 60 | 170M3417 | 170M3467 | 170M3517 | 170M3567 |
| | | 350 | 10,000 | 68,500 | 64 | 170M3418 | 170M3468 | 170M3518 | 170M3568 |
| | | 400 | 15,000 | 105,000 | 69 | 170M3419 | 170M3469 | 170M3519 | 170M3569 |
| | | 450 | 21,000 | 140,000 | 75 | 170M3420 | 170M3470 | 170M3520 | 170M3570 |
| | | 500 | 27,000 | 180,000 | 83 | 170M3421 | 170M3471 | 170M3521 | 170M3571 |
| | | 550 | 34,000 | 230,000 | 89 | 170M3422 | 170M3472 | 170M3522 | 170M3572 |
| | | 630 | 48,500 | 325,000 | 100 | 170M3423 | 170M3473 | 170M3523 | 170M3573 |
| | | 200 | 1650 | 11,500 | 45 | 170M4408 | 170M4458 | 170M4508 | 170M4558 |
| | | 250 | 3100 | 21,000 | 55 | 170M4409 | 170M4459 | 170M4509 | 170M4559 |
| | | 315 | 6200 | 42,000 | 58 | 170M4410 | 170M4460 | 170M4510 | 170M4560 |
| | | 350 | 8500 | 59,000 | 60 | 170M4411 | 170M4461 | 170M4511 | 170M4561 |
| | | 400 | 13,500 | 91,500 | 65 | 170M4412 | 170M4462 | 170M4512 | 170M4562 |
| | 690 V a.c. (IEC) | 450 | 17,000 | 120,000 | 70 | 170M4413 | 170M4463 | 170M4512 | 170M4563 |
| 1 | 700 V a.c. (UL) | 500 | 25,000 | 170,000 | 70 | 170M4414 | 170M4464 | 170M4513 | 170M4564 |
| | | 550 | 34,000 | 230,000 | 75 | 170M4415 | 170M4465 | 170M4514 | 170M4565 |
| | | 630 | 52,000 | 350,000 | 80 | 170M4415 | 170M4465 | 170M4516 | 170M4566 |
| | | 700 | 69,500 | 465,000 | 85 | 170M4410 | 170M4460 | 170M4517 | 170M4567 |
| | | 800 | 105,000 | 725,000 | 95 | 170M4417 | 170M4467 | 170M4518 | 170M4568 |
| | | 900 | | | 100 | | | | |
| | 550 V a.c. (IEC) | 400 | 155,000 | 850,000 | | 170M4419 | 170M4469 | 170M4519 170M5508 | 170M4569 170M5558 |
| | | - | 11,000 | 74,000 | 65 | 170M5408 | 170M5458 | | |
| | | 450 | 15,500 | 105,000 | 70 | 170M5409 | 170M5459 | 170M5509 | 170M5559 |
| | | 500 | 21,500 | 145,000 | 75 | 170M5410 | 170M5460 | 170M5510 | 170M5560 |
| | 690 V a.c. (IEC) | 550 | 28,000 | 190,000 | 80 | 170M5411 | 170M5461 | 170M5511 | 170M5561 |
| _ | 700 V a.c. (UL) | 630 | 41,000 | 275,000 | 90 | 170M5412 | 170M5462 | 170M5512 | 170M5562 |
| 2 | /00 / 0.0. (02) | 700 | 60,500 | 405,000 | 95 | 170M5413 | 170M5463 | 170M5513 | 170M5563 |
| | | 800 | 86,000 | 575,000 | 105 | 170M5414 | 170M5464 | 170M5514 | 170M5564 |
| | | 900 | 125,000 | 840,000 | 110 | 170M5415 | 170M5465 | 170M5515 | 170M5565 |
| | | 1000 | 180,000 | 1,250,000 | 115 | 170M5416 | 170M5466 | 170M5516 | 170M5566 |
| | 600 V a.c. (IEC) | 1100 | 245,000 | 1,600,000 | 120 | 170M5417 | 170M5467 | 170M5517 | 170M5567 |
| | 700 V a.c. (UL) | 1250 | 365,000 | 2,400,000 | 130 | 170M5418 | 170M5468 | 170M5518 | 170M5568 |
| | | 500 | 14,000 | 95,000 | 95 | 170M6408 | 170M6458 | 170M6508 | 170M6558 |
| | | 550 | 19,500 | 135,000 | 100 | 170M6409 | 170M6459 | 170M6509 | 170M6559 |
| | | 630 | 31,000 | 210,000 | 105 | 170M6410 | 170M6460 | 170M6510 | 170M6560 |
| | | 700 | 44,500 | 300,000 | 110 | 170M6411 | 170M6461 | 170M6511 | 170M6561 |
| | | 800 | 69,500 | 465,000 | 115 | 170M6412 | 170M6462 | 170M6512 | 170M6562 |
| | 690 V a.c. (IEC) | 900 | 100,000 | 670,000 | 120 | 170M6413 | 170M6463 | 170M6513 | 170M6563 |
| | 700 V a.c. (UL) | 1000 | 140,000 | 945,000 | 125 | 170M6414 | 170M6464 | 170M6514 | 170M6564 |
| 3 | | 1100 | 190,000 | 1,300,000 | 130 | 170M6415 | 170M6465 ¹ | 170M6515 | 170M6565 |
| | | 1250 | 290,000 | 1,950,000 | 140 | 170M6416 | 170M6466 | 170M6516 | 170M6566 |
| | | 1400 | 370,000 | 2,450,000 | 155 | 170M6417 | 170M6467 ¹ | 170M6517 | 170M6567 |
| | | 1500 | 460,000 | 3,100,000 | 160 | 170M6418 | 170M6468 | 170M6518 | 170M6568 |
| | | 1600 | 580,000 | 3,900,000 | 160 | 170M6419 | 170M6469 | 170M6519 | 170M6569 |
| | 600 V a.c. (IEC) / 500 V a.c. (UL) | 1800 | 880,000 | 5,250,000 | 165 | 170M6420 ² | 170M6470 | 170M6520 ² | 170M6570 |
| | 550 V a.c. IEC) / 500 V a.c. (UL) | 2000 | 1,150,000 | 6,350,000 | 175 | 170M6421 | 170M6471 | 170M6521 | 170M6571 |

¹ 170M6465 and 170M6467 rated at 800 V d.c. UL 85kA 3ms TC when two fuses are connected in series

 $^{\rm 2}$ 170M6420 and 170M6520 rated at 750 V d.c. 12XIn 130 kA when two fuses are connected in series

Data sheets: 170K6314 (Size 1*), 170K6316 (Size 1), 170K6318 (Size 2), 170K6320 (Size 3)

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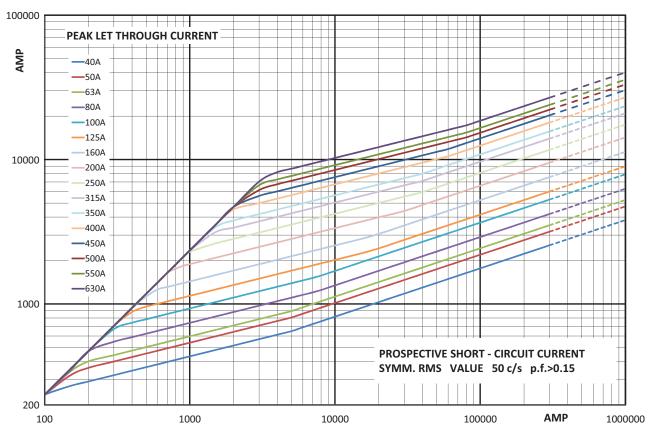
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

A 10000 The pre-arcing characteristic shows the virtual pre-arcing time as a function of the prospective short-circuit current (Symm r.m.s value) according to IEC60269.1 The fuses are for short-circuit protection and ۱ operation at currents resulting in pre-arcing times longer than t_A indicated at A on the ١ curves, must be avoided. 1000 1 1 1 ١ T 1 ١ ١ 1.1 ١ 111 100 1 1 ŧ 1 1 1 1 11 1111 111 N | | 1 ١ 1 1 1 1111 40A 10 50A Virtual Pre-arcing Time (Seconds) 63A -80A 100A -125A -160A 1 200A 250A 315A 350A -400A 450A 0.1 -500A 550A -630A 0.01 0.001 0.0001 1000 Prospective Current in Ampere r.m.s. 30 100 10000 30000 K_b = 1 N = 1,5

Time-current curve - Size 1*, 40 A to 630 A

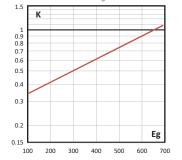
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 1*, 40 A to 630 A



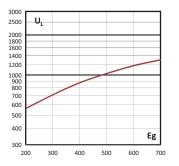
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{g} , (RMS).



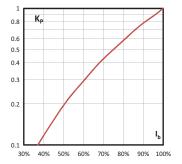
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



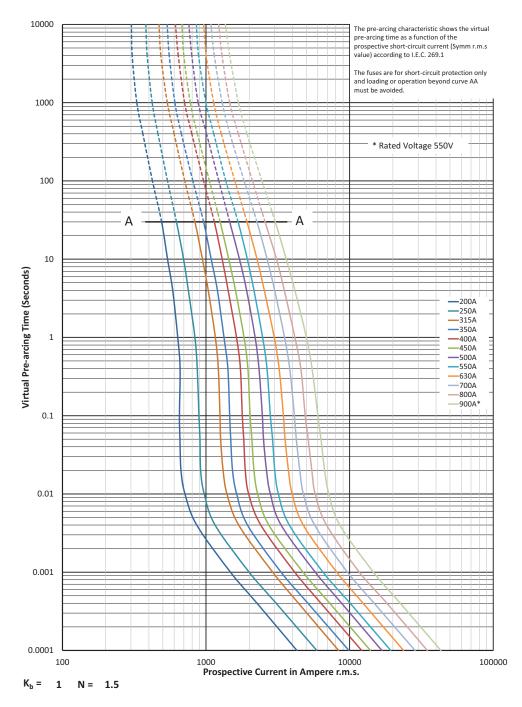
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



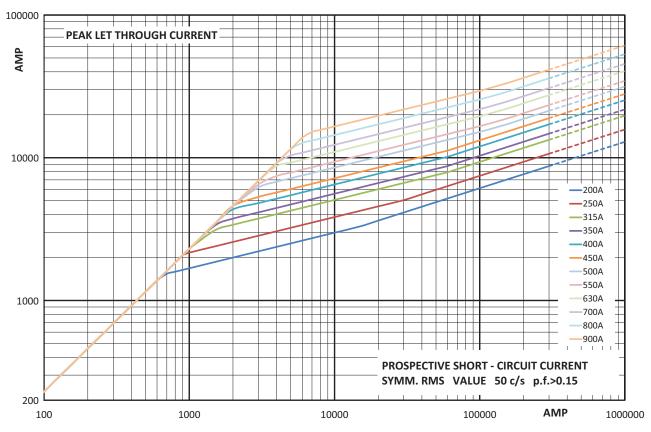
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 1, 200 A to 900 A



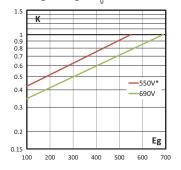
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 1, 200 A to 900 A



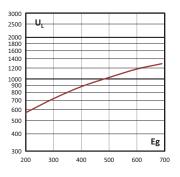
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



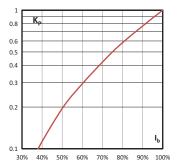
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



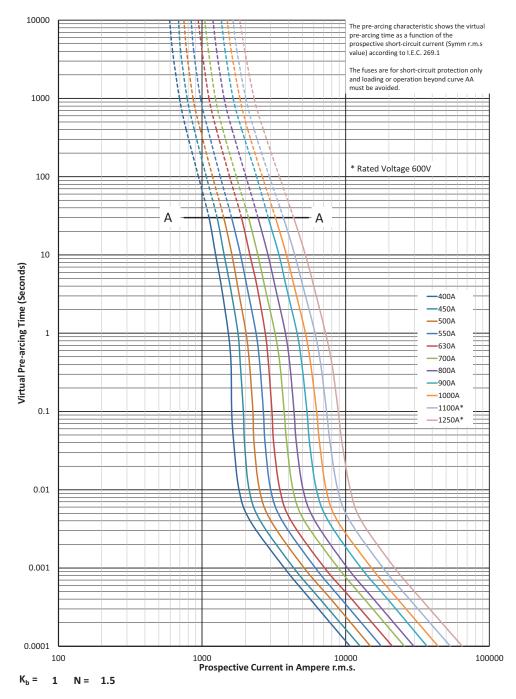
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



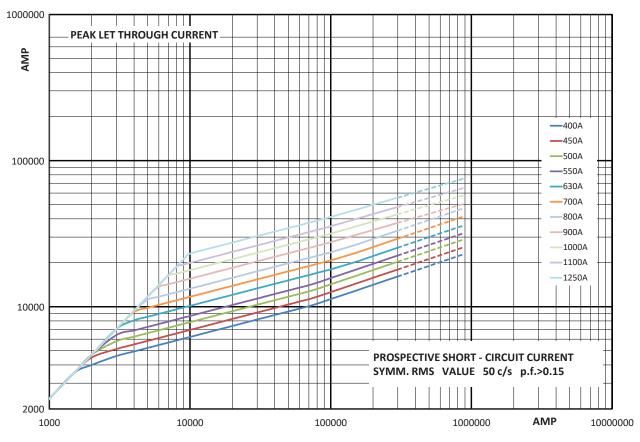
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 2, 400 A to 1250 A



170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

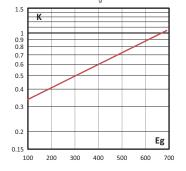
Cut-off curve - Size 2, 400 A to 1250 A



Total clearing l²t

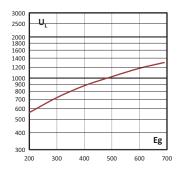
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The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



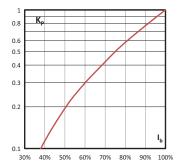
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



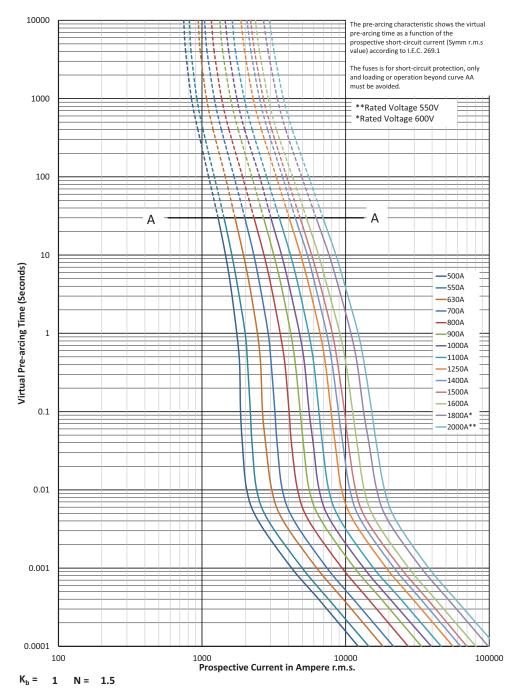
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



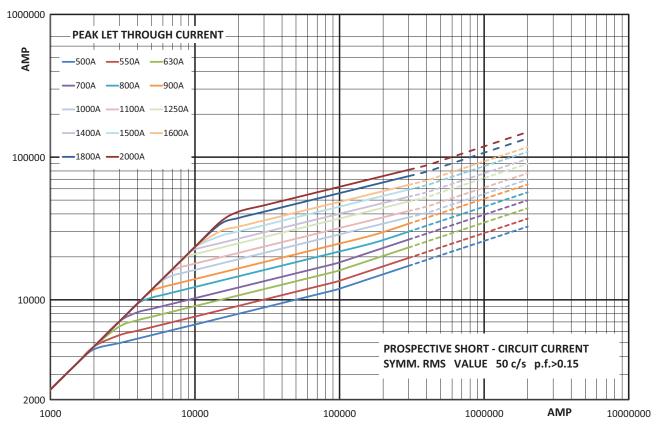
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Time-current curve - Size 3, 500 A to 2000 A



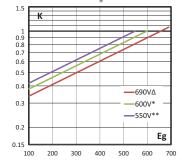
170M - Sizes 1* to 3, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 40 A to 2000 A

Cut-off curve - Size 3, 500 A to 2000 A



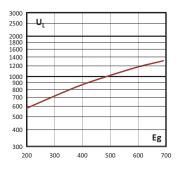
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_a, (RMS).



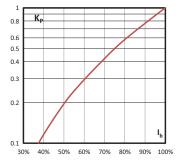
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, $E_{\rm g}$, (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

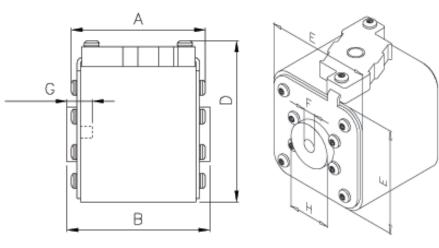
- Rated voltage:
 - 1000 V a.c. (IEC, 50 A to 1250 A)
 - 1000 V a.c. (UL, 250 A to 1100 A)
 - 900 V a.c. (IEC, 1400 A)
- Rated current: 50 A to 1400 A
- Breaking capacity:
- 125kA RMS Sym. AC
- Size 1 DC 750 V d.c. 50 kA IR
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4, UL Recognised for size 2 and 3 (only up to 1100 A)



Dimensions (mm)



| Size | Туре | Α | В | D (max) | Е | F | F¹ (in) | G (min) | Н |
|------|-----------------|------|------|---------|----|-----|-----------------|---------|------|
| 1* | BKN/75 + GKN/75 | 72.5 | 74 | 61 | 43 | M8 | 5/16"18 UNC-2B | 5 | 17.5 |
| 1 | BKN/75 + GKN/75 | 73.2 | 74 | 69 | 52 | M8 | 5/16" 18 UNC-2B | 8 | 20 |
| 2 | BKN/75 + GKN/75 | 73.2 | 74.4 | 77 | 59 | M10 | 3/8" 16 UNC-2B | 10 | 24.5 |
| 3 | BKN/75 + GKN/75 | 73.3 | 75.4 | 92 | 74 | M12 | 1⁄2" 13 UNC-2B | 10 | 30 |
| 3 | BKN/90 + GKN/90 | 80.3 | 91.4 | 92 | 74 | M12 | 1⁄2"13 UNC-2B | 10 | 30 |

¹ Valid for fuses type -GKN/-.

170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

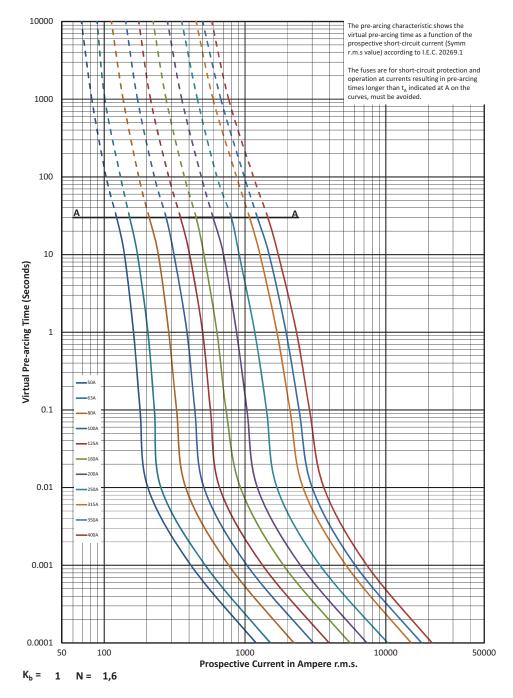
Catalogue numbers

| | | | l²t (A² Sec) | | | Catalogue num | bers |
|------------------------|-------------------------------|-------------------------|--------------|---------------------------------|-------------------|---|---|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at rated voltage | Watts loss (W) | -BKN/- Type K indicator for micro | -GKN/- Type K indicator for micro |
| | | 50 | 135 | 815 | 20 | 170M3951 | 170M3921 |
| | | 63 | 215 | 1300 | 25 | 170M3952 | 170M3922 |
| | | 80 | 460 | 2750 | 30 | 170M3953 | 170M3923 |
| | | 100 | 860 | 5100 | 35 | 170M3954 | 170M3924 |
| | | 125 | 1450 | 8600 | 40 | 170M3955 | 170M3925 |
| 1* | 1000 V a.c. (IEC) | 160 | 2850 | 17,500 | 45 | 170M3956 | 170M3926 |
| | | 200 | 4950 | 29,500 | 50 | 170M3957 | 170M3927 |
| | | 250 | 9550 | 57,000 | 55 | 170M3958 | 170M3928 |
| | | 315 | 21,500 | 130,000 | 65 | 170M3959 | 170M3929 |
| | | 350 | 29,000 | 175,000 | 70 | 170M3960 | 170M3930 |
| | | 400 | 42,000 | 250,000 | 75 | 170M3961 | 170M3931 |
| | | 160 | 2200 | 13,500 | 40 | 170M4951 | 170M4921 |
| | | 200 | 4150 | 24,500 | 45 | 170M4952 | 170M4922 |
| | | 250 | 7750 | 46,000 | 52 | 170M4953 | 170M4923 |
| | | 315 | 16,500 | 98,500 | 60 | 170M4954 | 170M4924 |
| | 1000 V a.c. (IEC) | 350 | 21,500 | 130,000 | 65 | 170M4955 | 170M4925 |
| 1 | 1000 V a.c. / 750 V d.c. (UL) | 400 | 31,000 | 185,000 | 70 | 170M4956 | 170M4926 |
| | | 450 | 44,500 | 265,000 | 80 | 170M4957 | 170M4927 |
| | | 500 | 63,000 | 375,000 | 85 | 170M4958 | 170M4928 |
| | | 550 | 84,500 | 500,000 | 90 | 170M4959 | 170M4929 |
| | | 630 | 125,000 | 755,000 | 98 | 170M4960 | 170M4930 |
| | | 250 | 6750 | 40,000 | 65 | 170M5952 | 170M5922 |
| | | 315 | 13,500 | 81,500 | 75 | 170M5953 | 170M5923 |
| | | 350 | 16,500 | 99,000 | 80 | 170M5954 | 170M5924 |
| | | 400 | 26,000 | 155,000 | 85 | 170M5955 | 170M5925 |
| | | 450 | 35,500 | 210,000 | 90 | 170M5956 | 170M5926 |
| 2 | 1000 V a.c. (IEC/UL) | 500 | 49,500 | 295,000 | 95 | 170M5957 | 170M5927 |
| | | 550 | 66,000 | 390,000 | 100 | 170M5958 | 170M5928 |
| | | 630 | 93,500 | 555,000 | 110 | 170M5959 | 170M5929 |
| | | 700 | 130,000 | 770,000 | 115 | 170M5960 | 170M5930 |
| | | 800 | 195,000 | 1,200,000 | 125 | 170M5961 | 170M5931 |
| | | 315 | 9200 | 54,500 | 90 | 170M8600 | 170M8500 |
| | | 350 | 13,000 | 77,500 | 95 | 170M8601 | 170M8501 |
| | | 400 | 19,000 | 115,000 | 105 | 170M8602 | 170M8502 |
| | | 450 | 27,000 | 160,000 | 107 | 170M8603 | 170M8503 |
| | | 500 | 37,500 | 225,000 | 110 | 170M8604 | 170M8504 |
| | (000) ((000) *** | 550 | 52,000 | 310,000 | 115 | 170M8605 | 170M8505 |
| | 1000 V a.c. (IEC/UL) | 630 | 82,500 | 490,000 | 120 | 170M8606 | 170M8506 |
| 3 | | 700 | 115,000 | 700,000 | 125 | 170M8607 | 170M8507 |
| | | 800 | 170,000 | 1,050,000 | 135 | 170M8608 | 170M8508 |
| | | 900 | 250,000 | 1,500,000 | 145 | 170M8609 | 170M8509 |
| | | 1000 | 340,000 | 2,050,000 | 150 | 170M8610 | 170M8510 |
| | | 1100 | 460,000 | 2,750,000 | 155 | 170M8611 | 170M8511 |
| | 1000 V a.c. (IEC) | 1250 | 575,000 | 3,400,000 | 175 | 170M8612 ¹ | 170M8512 ¹ |
| | 900 V a.c. (IEC) | 1400 | 795,000 | 4,200,000 | 185 | 170M86131 | 170M85131 |
| | | | | .,_00,000 | | | |

¹ Overall length is 90 mm, for all other fuse links the overall length is 75 mm.

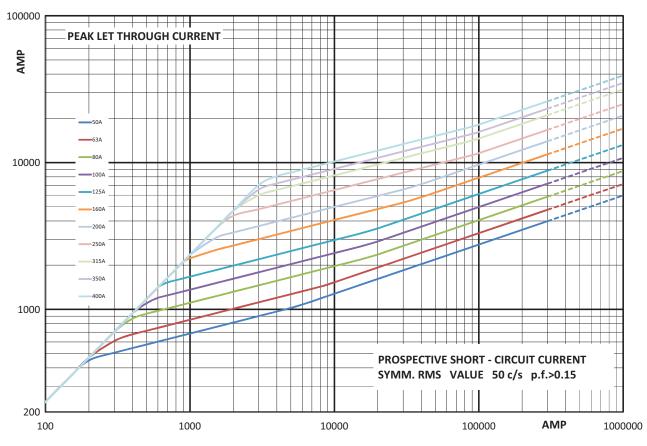
170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 1*, 50 A to 400 A



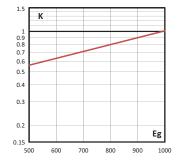
170M - sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 1*, 50 A to 400 A



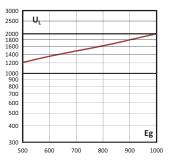
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



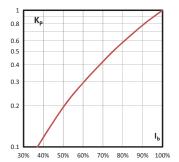
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



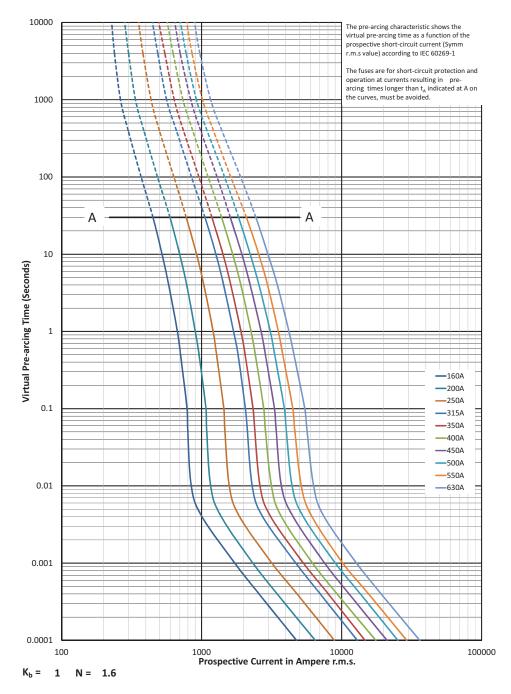
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



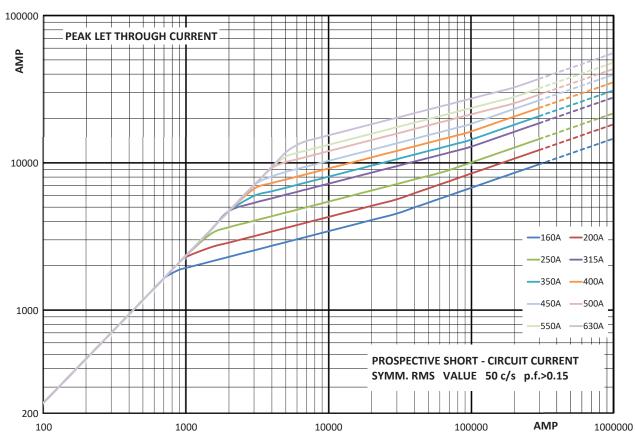
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



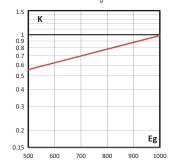
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 1, 160 A to 630 A



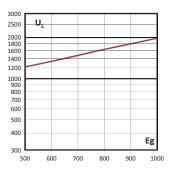
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



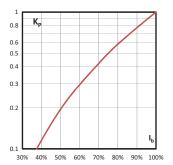
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



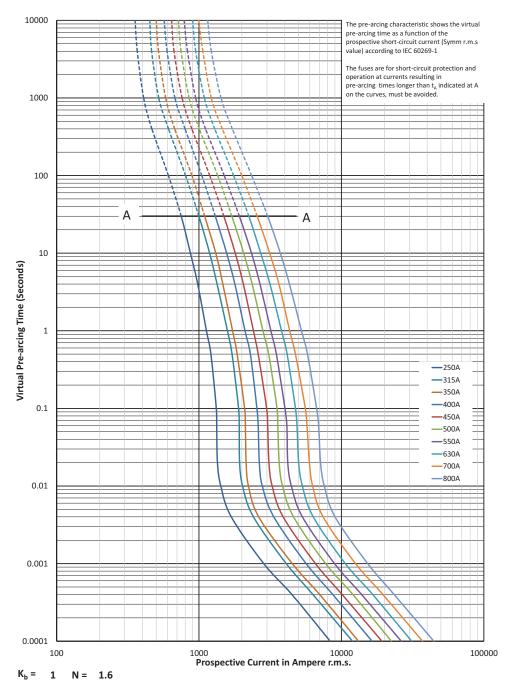
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



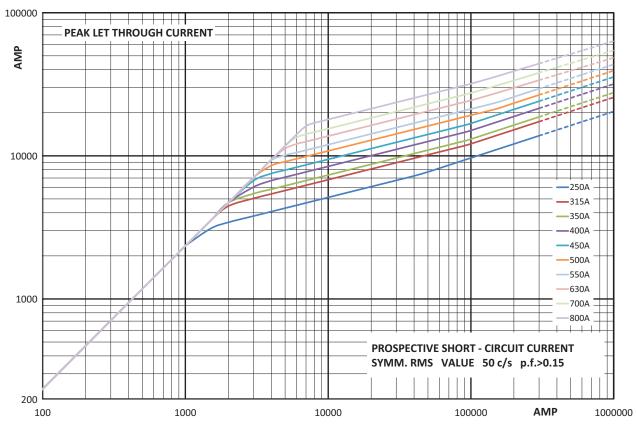
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 800 A



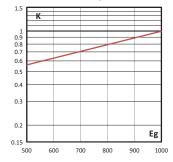
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 2, 250 A to 800 A



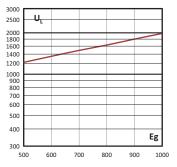
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



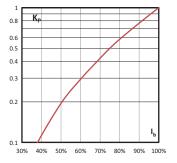
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



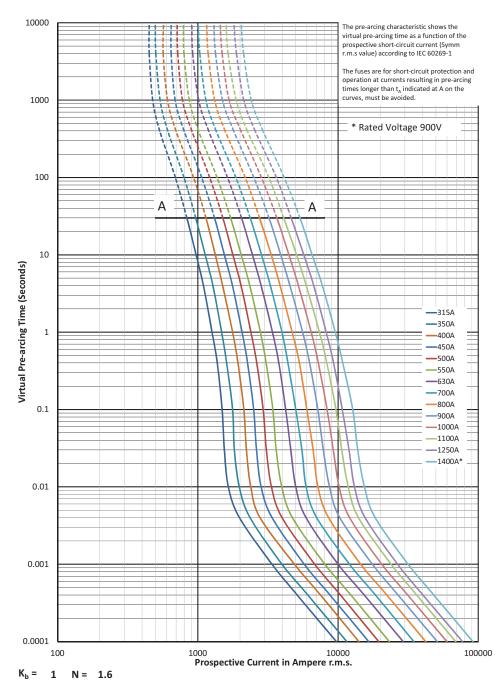
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



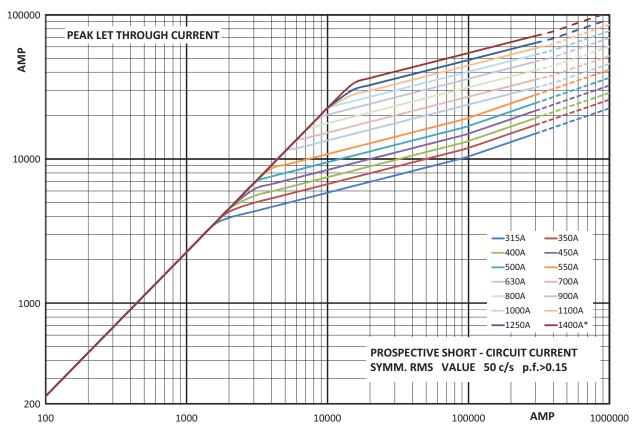
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Time-current curve - Size 3, 315 A to 1400 A



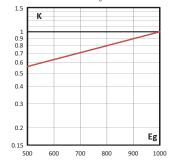
170M - Sizes 1* to 3, Flush end contact, 1000 V a.c. (IEC and UL), 50 A to 1400 A

Cut-off curve - Size 3, 315 A to 1400 A



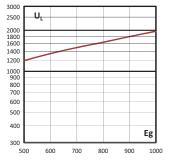
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{α} , (RMS).



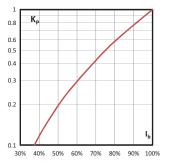
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

Technical data

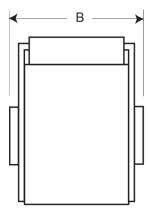
- Rated voltage:
 - 1250 V a.c. (IEC)
 - 1300 V a.c. (UL)
- Rated current: 50 A to 1400 A
- Breaking capacity: 100 kA RMS Sym
- Operating class: aR

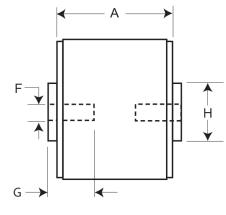
Standards / Agency information

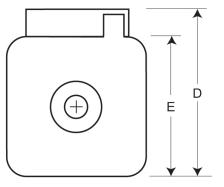
CE, Designed and tested to IEC 60269 Part 4. Consult Eaton for UL Recognition/CSA Component Acceptance Status



Dimensions (mm)







| Size | Туре | Α | В | D | E | F | F¹ (in) | Min G | H |
|------|--------------|----|----|----|----|-----|------------------------------|-------|-----|
| 1* | BKN + GKN/75 | 74 | 75 | 59 | 45 | M8 | ⁵ /16" -18 UNC-2B | 5 | Ø17 |
| 1* | BKN/80 | 80 | 81 | 59 | 45 | M8 | | 5 | Ø17 |
| 1 | BKN + GKN/75 | 74 | 75 | 69 | 53 | M8 | 5/16" -18 UNC-2B | 8 | Ø20 |
| 1 | BKN/80 | 80 | 81 | 69 | 53 | M8 | | 8 | Ø20 |
| 2 | BKN + GKN/75 | 74 | 75 | 77 | 61 | M10 | 3/8" -16 UNC-2B | 10 | Ø24 |
| 2 | BKN/80 | 80 | 81 | 77 | 61 | M10 | | 10 | Ø24 |
| 2 | BKN + GKN/90 | 80 | 91 | 77 | 61 | M10 | 3/8" -16 UNC-2B | 10 | Ø24 |
| 3 | BKN + GKN/75 | 74 | 76 | 92 | 76 | M12 | 1⁄2" -13 UNC-2B | 10 | Ø30 |
| 3 | BKN/80 | 81 | 83 | 92 | 76 | M12 | | 10 | Ø30 |
| 3 | BKN + GKN/90 | 81 | 91 | 92 | 76 | M12 | 1⁄2" -13 UNC-2B | 10 | Ø30 |

¹ Valid for fuses type -GKN/-.

170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

| | | | l²t (A² Sec) | | | _ | Catalogue numbers | | | | | | |
|------------------------------|----------------------|----------------------------|----------------|----------------------------|----------------------------|-----------------------|---|--|--|--|--|--|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre- arcing | Clearing at 1000 V a.c. | Clearing at 1250 V a.c. | Watts loss (W) | -BKN/75 Type K indicator for micro | -BKN/80 Type K indicator for micro | -BKN/90 Type K Indicator for micro | -GKN/75 Type K Indicator for micro | -GKN/90 Type K Indicator for micro | | |
| | | 50 | 135 | 815 | 1100 | 15 | 170M33886 | 170M3438 | | 170M3488 ⁶ | | | |
| | | 63 | 215 | 1300 | 1750 | 20 | 170M33896 | 170M3439 | - | 170M3489 ⁶ | - | | |
| | | 80 | 420 | 2500 | 3350 | 25 | 170M3390 ⁶ | 170M3440 | - | 170M3490 ⁶ | - | | |
| | | 100 | 750 | 4450 | 5950 | 30 | 170M33916 | 170M3441 | - | 170M34916 | - | | |
| | 1250 V a.c. | 125 | 1450 | 9000 | 11,500 | 35 | 170M33926 | 170M3442 | - | 170M3492 ⁶ | - | | |
| 6 | (IEC) 1300 V a.c. | 160 | 2600 | 16,000 | 21,000 | 40 | 170M33936 | 170M3443 | - | 170M3493 ⁶ | - | | |
| | (UL) | 200 | 5150 | 31,000 | 41,000 | 45 | 170M3394 ⁶ | 170M3444 | - | 170M3494 ⁶ | - | | |
| | | 250 | 9200 | 54,500 | 73,000 | 55 | 170M3395 ⁶ | 170M3445 | - | 170M3495 ⁶ | - | | |
| | | 315 | 18,500 | 115,000 | 150,000 | 60 | 170M33966 | 170M3446 | - | 170M3496 ⁶ | - | | |
| | | 350 | 27,000 | 165,000 | 220,000 | 65 | 170M33976 | 170M3447 | - | 170M3497 ⁶ | - | | |
| | | 400 | 53,000 | 265,000 | 335,000 | 70 | | 170M3448 | - | | - | | |
| | | 160 | 1900 | 11,500 | 15,500 | 45 | 170M4388 ⁶ | 170M4438 ⁶ | - | 170M4488 ⁶ | - | | |
| | | 200 | 3800 | 22,500 | 30,000 | 50 | 170M4389 ⁶ | 170M44396 | _ | 170M4489 ⁶ | _ | | |
| | | 250 | 7750 | 46,000 | 61,500 | 60 | 170M4390 ⁶ | 170M4440 ⁶ | - | 170M4490 ⁶ | - | | |
| | 1250 V a.c. | 315 | 15,000 | 90,000 | 120,000 | 65 | 170M43916 | 170M4441 ⁶ | - | 170M4491 ⁶ | - | | |
| | (IEC) | 350 | 20,000 | 125,000 | 165,000 | 70 | 170M4392 ⁶ | 170M4442 ⁶ | - | 170M4492 ⁶ | - | | |
| | 1300 V a.c. | 400 | 29,500 | 175,000 | 235,000 | 75 | 170M43936 | 170M4443 ⁶ | - | 170M4493 ⁶ | - | | |
| | (UL) | 450 | 42,000 | 250,000 | 335,000 | 80 | 170M4394 ⁶ | 170M4444 ⁶ | - | 170M4494 ⁶ | - | | |
| | 500 | 69,500 | 340,000 | 435,000 | 85 | 170M4395 ⁴ | 170M4445 | - | 170M4495 ⁴ | - | | | |
| | | 550 | 95,000 | 465,000 | 590,000 | 95 | 170M4396 ⁵ | 170M4446 | - | 170M4496 ⁵ | - | | |
| | | 630 | 130,000 | 660,000 | N/A | 110 | 170M4397 ⁵ | 170M4447 ⁴ | - | 170M4497 ⁵ | - | | |
| | | 250 | 6500 | 38,500 | 51,500 | 65 | 170M5388 | 170M5438 | - | 170M5588 | - | | |
| | | 280 | 9350 | 55,500 | 74,500 | 70 | 170M5389 | 170M5439 | - | 170M5589 | - | | |
| | | 315 | 13,000 | 77,500 | 105,000 | 75 | 170M5390 | 170M5440 | - | 170M5590 | - | | |
| | | 350 | 16,500 | 97,500 | 135,000 | 80 | 170M5391 | 170M5441 | - | 170M5591 | | | |
| | | 400 | 23,000 | 140,000 | 180,000 | 85 | 170M5392 | 170M5442 | - | 170M5592 | - | | |
| | 1250 V a.c. | 450 | 34,000 | 205,000 | 270,000 | 90 | 170M5393 | 170M5443 | - | 170M5593 | _ | | |
| | (IEC) 1300 V a.c. | 500 | 48,000 | 285,000 | 380,000 | 95 | 170M5394 | 170M5444 | 170M5494 | 170M5594 | 170M5644 | | |
| | (UL) | 550 | 62,000 | 370,000 | 495,000 | 100 | 170M5395 | 170M5445 | 170M5495 | 170M5595 | 170M5645 | | |
| | | 630 | 115,000 | 575,000 | 730,000 | 120 | 170M53964 | 170M5446 | 170M5496 | 170M5596 ⁴ | 170M5646 | | |
| | | 700 | 160,000 | 795,000 | 1,050,000 | 125 | 170M5397 ⁵ | 170M5447 ⁷ | 170M5497 | 170M5597 ⁵ | 170M5647 | | |
| | | 800 | 245,000 | 1,200,000 | 1,550,000 | 130 | 170M5398 ⁵ | 170M5448 ⁸ | 170M5498 | 170M5598⁵ | 170M5648 | | |
| | | 900 | 360,000 | 1,750,000 | N/A | 135 | | | 170M5499 ⁹ | _ | 170M5649 ⁹ | | |
| | | 1000 | 480,000 | 2,350,000 | N/A | 145 | | | 170M5500 ⁹ | | 170M5650 ⁹ | | |
| | | 315 | 9500 | 58,000 | 77,500 | 85 | 170M63386 | 170M6538 ⁶ | | 170M6588 | | | |
| | | 350 | 13,500 | 81,500 | 110,000 | 90 | 170M6339 ⁶ | 170M6539 ⁶ | _ | 170M6589 | _ | | |
| | | 400 | 19,500 | 120,000 | 160,000 | 95 | 170M6340 ⁶ | 170M6540 ⁶ | _ | 170M6590 | | | |
| | | 450 | 31,000 | 185,000 | 245,000 | 100 | 170M63416 | 170M6541 ⁶ | _ | 170M6591 | _ | | |
| | | 500 | 39,000 | 235,000 | 310,000 | 105 | 170M6342 ⁶ | 170M6542 ⁶ | _ | 170M6592 | _ | | |
| | 1250 \/ a a | 550 | 55,000 | 325,000 | 435,000 | 110 | 170M63436 | 170M6543 ⁶ | - | 170M6593 | - | | |
| | 1250 V a.c. (IEC) | 630 | 83,500 | 495,000 | 665,000 | 115 | 170M6344 ⁶ | 170M6544 ⁶ | 170M6494 ⁶ | 170M6594 | 170M6644 | | |
| | 1300 V a.c. | 700 | 115,000 | 705,000 | 940,000 | 120 | 170M6345 | 170M6545 ⁶ | 170M6495 ⁶ | 170M6595 | 170M6645 ⁶ | | |
| | (UL) | 800 | 205,000 | 995,000 | 1,300,000 | 125 | 170M63464 | 170M6546 ⁶ | 170M6496 ¹² | 170M6596 ⁴ | 170M6646 ¹² | | |
| | | 900 | 305,000 | 1,500,000 | 1,900,000 | 130 | 170M6347 ⁵ | 170M6547 ¹⁰ | 170M6497 ¹² | 170M6597 ⁵ | 170M6647 ¹² | | |
| | | 1000 | 450,000 | 2,150,000 | 2,750,000 | 135 | 170M63485 | 170M6548 ¹⁰ | 170M6498 ¹² | 170M6598 ⁵ | 170M6648 ¹² | | |
| | | 1100 | 575,000 | 2,800,000 | 3,600,000 | 160 | 170M6349 ⁵ | 170M6549 ¹¹ | 170M6499 ¹² | 170M6599 ⁵ | 170M6649 ¹² | | |
| | | 1250 | 810,000 | 3,950,000 | N/A | 170 | | | 170M6500 ¹³ | | 170M6650 ⁴ | | |
| | | 1400 | 1,250,000 | 6,000,000 | N/A | 175 | | | 170M6501 ¹³ | - | 170M66514 | | |

¹ Rated voltage 1100 V a.c. (IEC), 1000 V a.c. (UL).

² Rated voltage 1000 V a.c. (IEC and UL).

³ Rated voltage 1100 V a.c. (IEC and UL).

⁴ Rated voltage (IEC) 1100 V a.c.

⁵ Rated voltage (IEC) 1000 V a.c.

⁶ Rated voltage 900 V d.c. 8XIn 90 kA

 7 Rated voltage 1100 V a.c. (IEC), 1000 V a.c. (UL). and 1000 V d.c. 8XIn 70 kA $^{\rm 8}$ Rated voltage 1000 V a.c. (IEC and UL). and 1000 V d.c. 8XIn 70 kA

⁹ Rated voltage 1100 V a.c. (IEC and UL). and 900 V d.c. 9.5XIn 80 kA

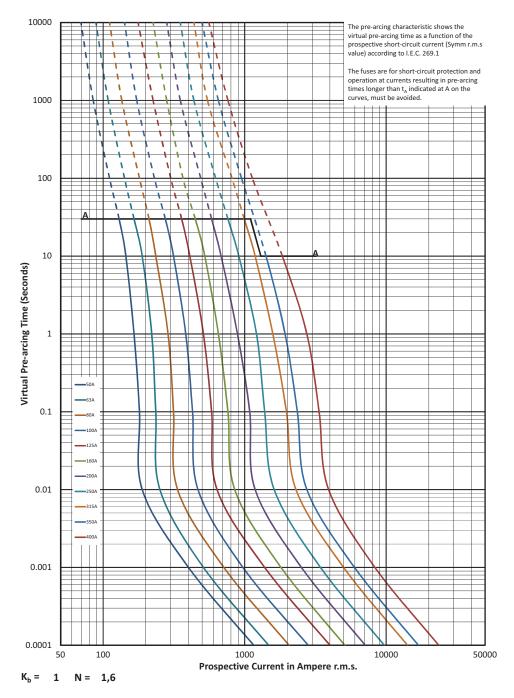
 $^{\rm 10}$ Rated voltage 1100 V a.c. (IEC), 1000 V a.c. (UL). and 900 V d.c. 8XIn 90 kA $^{\rm 11}$ Rated voltage 1000 V a.c. (IEC and UL). and 900 V d.c. 8XIn 90 kA

12 Rated voltage 1000 V d.c. 10XIn 91 kA

 $^{\rm 13}$ Rated voltage 1100 V a.c. (IEC and UL), and 900 V d.c. 12XIn 90 kA

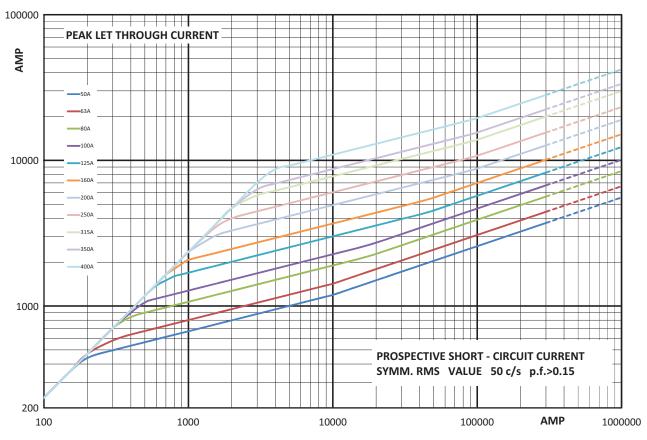
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1*, 50 A to 400 A



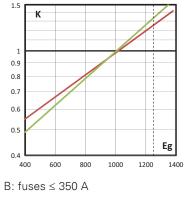
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 1*, 50 A to 400 A



Total clearing l²t

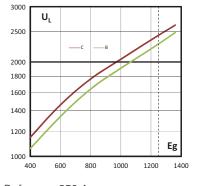
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



C: fuses ≥ 400 A

Arc voltage

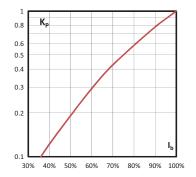
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



B: fuses \leq 350 A C: fuses \geq 400 A

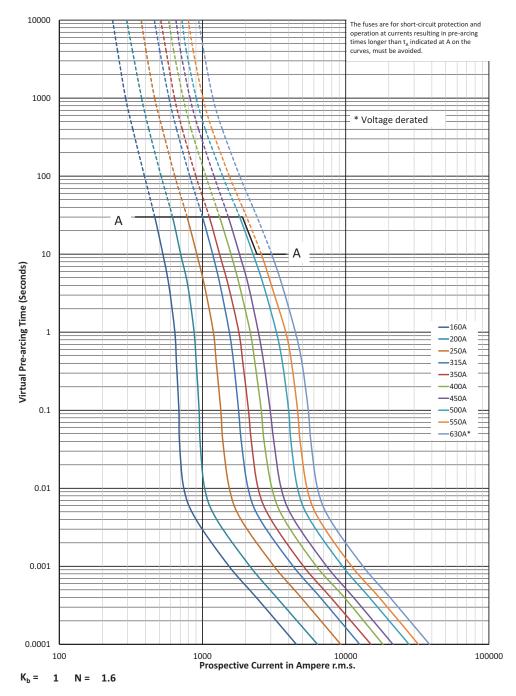
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



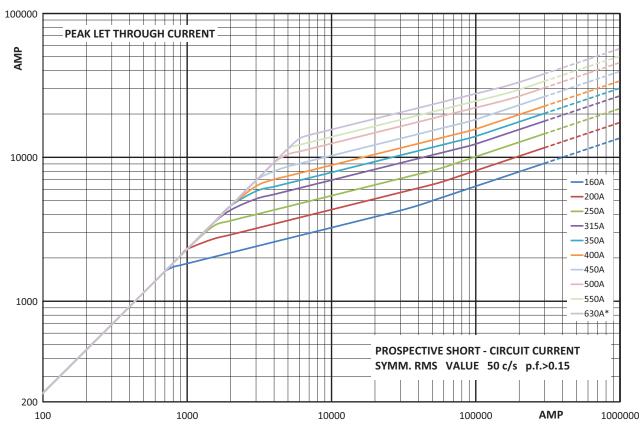
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 1, 160 A to 630 A



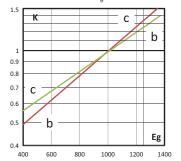
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 1, 160 A to 630 A



Total clearing l²t

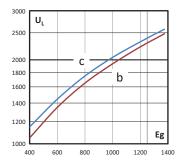
The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



B: fuses \leq 450 A C: fuses \geq 500 A

Arc voltage

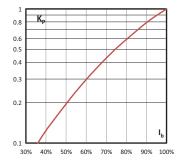
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



B: fuses ≤ 450 A C: fuses ≥ 500 A

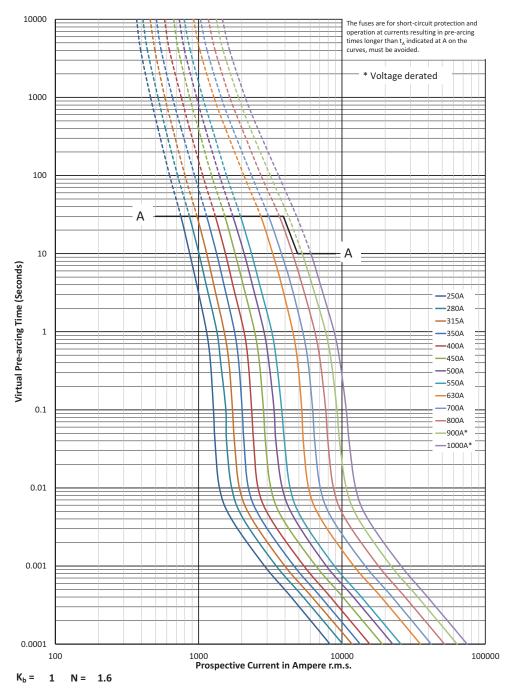
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



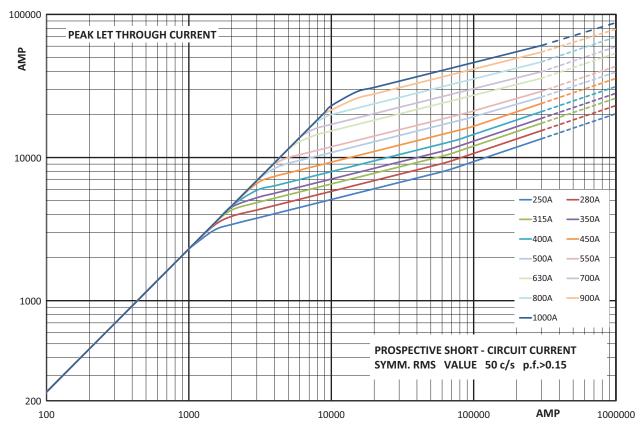
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Time-current curve - Size 2, 250 A to 1000 A



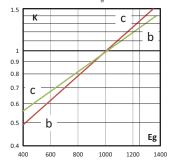
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 2, 250 A to 1000 A



Total clearing l²t

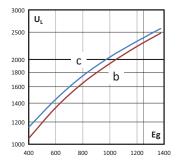
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



B: fuses \leq 550 A C: fuses \geq 630 A

Arc voltage

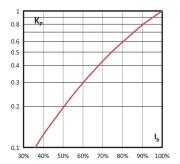
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



B: fuses \leq 550 A C: fuses \geq 630 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



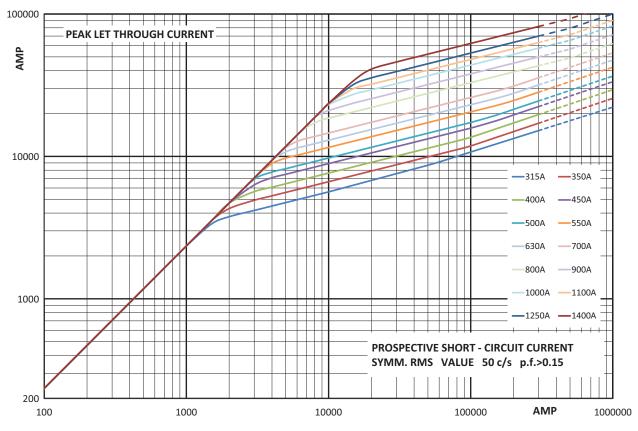
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

10000 The pre-arcing characteristic shows the virtual pre-arcing time as a function of the prospective short-circuit current (Symm r.m.s value) according to I.E.C. 269.1 The fuses are for short-circuit protection and operation at currents resulting in pre-arcing times longer than $t_{\rm A}$ indicated at A on the curves, must be avoided. 1000 * Voltage derated 100 -315A -350A A -400A 450A 500A 10 А 550A Virtual Pre-arcing Time (Seconds) 630A 700A 800A 900A -1000A 1100A 1 Ξ -1250A* -1400A* 0.1 0.01 0.001 0.0001 1000 Prospective Current in Ampere r.m.s. 100 10000 100000 K_b = 1 N = 1.6

Time-current curve - Size 3, 315 A to 1400 A

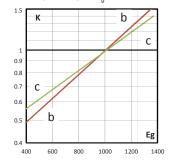
170M - Sizes 1* to 3, Flush end contact, 1250 V a.c. (IEC), 1300 V a.c. (UL), 50 A to 1400 A

Cut-off curve - Size 3, 315 A to 1400 A



Total clearing l²t

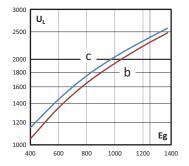
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



B: fuses ≤ 700 A C: fuses ≥ 800 A

Arc voltage

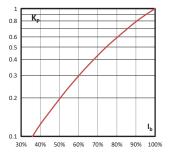
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



B: fuses ≤ 700 A C: fuses ≥ 800 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Size 4, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 1000 A to 4000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 690 V a.c. (IEC) / 700 V a.c. (UL) 1000 A to 3500 A
 - 600 V a.c. (IEC and UL, 4000 A)
- Rated current: 1000 A to 4000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4, UL Recognised

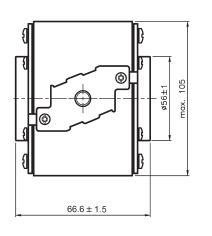
Catalogue numbers



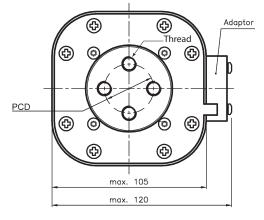
| | | | I²t (A² Sec) | | | Catalogue nur | nbers | | |
|------------------------|--------------------------|-------------------------|--------------|---------------------------|-------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | -B/65 visual indicator | -BKN/65 Type K indicator | -G/65 visual indicator | -GKN/65 Type K indicator |
| | | 1000 | 76,000 | 505,000 | 175 | 170M7058 | 170M7078 | 170M7098 | 170M7118 |
| | | 1250 | 145,000 | 965,000 | 195 | 170M7059 | 170M7079 | 170M7099 | 170M7119 |
| | | 1400 | 205,000 | 1,400,000 | 205 | 170M7060 | 170M7080 | 170M7100 | 170M7120 |
| | 690 V a.c. (IEC) | 1600 | 305,000 | 2,050,000 | 220 | 170M7061 | 170M7081 | 170M7101 | 170M7121 |
| | | 1800 | 436,600 | 3,067,000 | 260 | 170M7340 | - | - | - |
| 4 | 700 V a.c. (UL) | 2000 | 600,000 | 3,950,000 | 245 | 170M7062 | 170M7082 | 170M7102 | 170M7122 |
| · | | 2200 | 805,000 | 5,350,000 | 255 | 170M7116 | 170M7114 | 170M7171 | 170M7173 |
| | | 2500 | 1,200,000 | 7,800,000 | 275 | 170M7063 | 170M7083 | 170M7103 | 170M7123 |
| | | 3000 | 2,000,000 | 13,500,000 | 305 | 170M7064 | 170M7084 | 170M7104 | 170M7124 |
| | | 3500 | 3,250,000 | 22,000,000 | 325 | 170M7065 | 170M7085 | 170M7105 | 170M7125 |
| | 600 V a.c. (IEC & UL) | 4000 | 4,700,000 | 28,000,000 ¹ | 355 | 170M7066 | 170M7086 | 170M7106 | 170M7126 |

¹ Clearing at 600 V a.c.

Dimensions (mm) -BKN/65 and -GKN/65

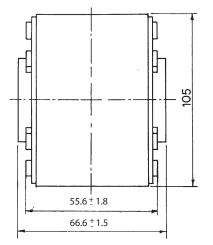


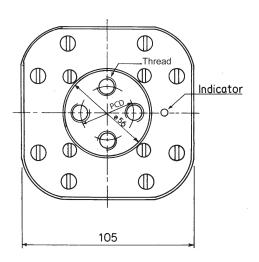
| Туре | PCD | Thread |
|---------|--------|---------------|
| -GKN/65 | Ø 38.1 | UNC 1⁄2" - 13 |
| -BKN/65 | Ø 33 | M-10 |



170M - Size 4, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 1000 A to 4000 A

Dimensions (mm) -B/65 and -G/65

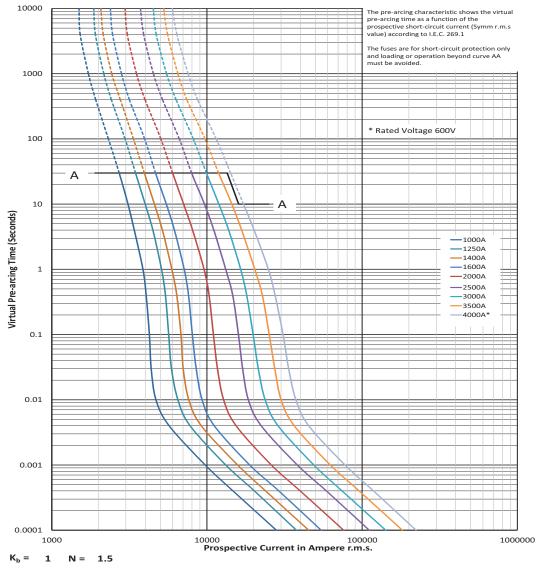




Type -B/65, -G/65

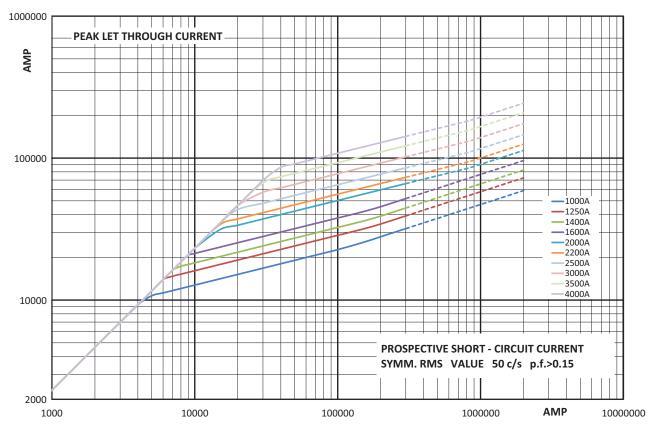
| | PCD | Thread |
|-------|--------|---------------|
| -G/65 | Ø 38.1 | UNC 1⁄2" - 13 |
| -B/65 | Ø 33 | M-10 |

Time-current curve - 1000 A to 4000 A



Data sheet: 170K6328

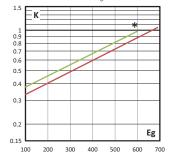
170M - Size 4, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 1000 A to 4000 A



Cut-off curve - 1000 A to 4000 A

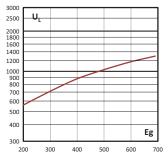
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



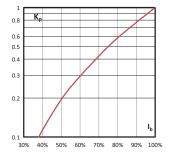
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage: 1000 V a.c. (IEC and IEC/UL)
- Rated current: 1000 A to 3000 A
- Breaking capacity:
 - IEC Certified catalogue numbers 200 kA RMS Sym
 - IEC and UL Certified catalogue numbers: 100 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4

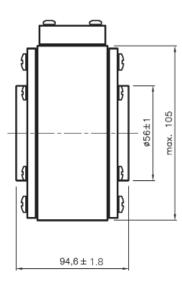
-UL catalogue numbers are IEC 60269 Part 4 and UL 248-13 certified

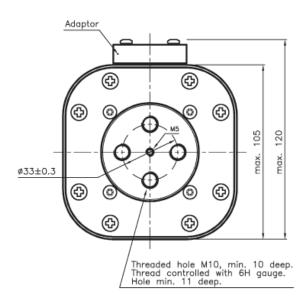
Catalogue numbers



| Fuse | | | I²t (A² Sec) | | _ | Catalogue numbers | | | |
|----------------------|------------------|----------------------------|--------------|----------------------------|----------------------|--|--|---|---|
| link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1000 V a.c. | Watts loss (W) | -BKN/95 Type K indicator with IEC certification only | -BKN/95 Type K indicator with IEC and UL Certification | -SBKN/90 Type K indicator with IEC certification only | -SBKN/90 Type K indicator with IEC and UL Certication |
| | | 1000 | 180,000 | 1,100,000 | 195 | | | 170M7542 | 170M7542-UL |
| | | 1100 | 250,000 | 1,500,000 | 200 | | | 170M7031 | 170M7031-UL |
| | | 1500 | 600,000 | 3,600,000 | 250 | 170M7636 | 170M7636-UL | 170M7548 | 170M7548-UL |
| | | 1700 | 850,000 | 5,000,000 | 260 | 170M7639 | 170M7639-UL | 170M7034 | 170M7034-UL |
| 4 | 1000 | 1800 | 1,000,000 | 5,950,000 | 265 | 170M7661 | 170M7661-UL | 170M7053 | 170M7053-UL |
| 4 | V a.c. | 2000 | 1,450,000 | 8,600,000 | 270 | 170M7963 | 170M7963-UL | 170M7544 | 170M7544-UL |
| | | 2200 | 2,000,000 | 12,000,000 | 280 | 170M7090 | 170M7090-UL | 170M7035 | 170M7035-UL |
| | | 2500 | 3,000,000 | 18,000,000 | 295 | 170M7640 | 170M7640-UL | 170M7036 | 170M7036-UL |
| | | 2700 | 3,700,000 | 22,000,000 | 310 | 170M7658 | 170M7658-UL | 170M7037 | 170M7037-UL |
| | | 3000 | 4,700,000 | 28,000,000 | 380 | 170M7962 | 170M7962-UL | 170M7156 | 170M7156-UL |

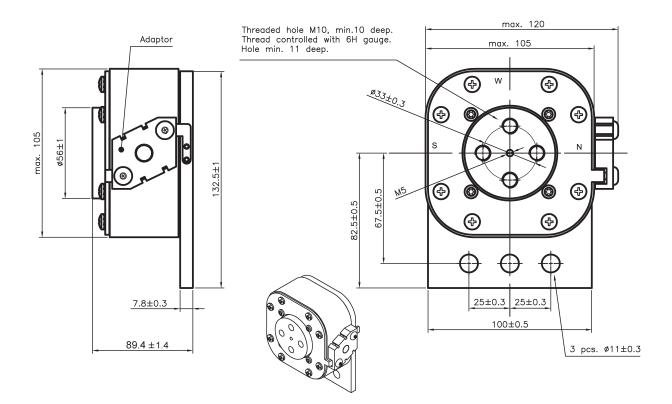
Dimensions (mm) - 4BKN/95





170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A

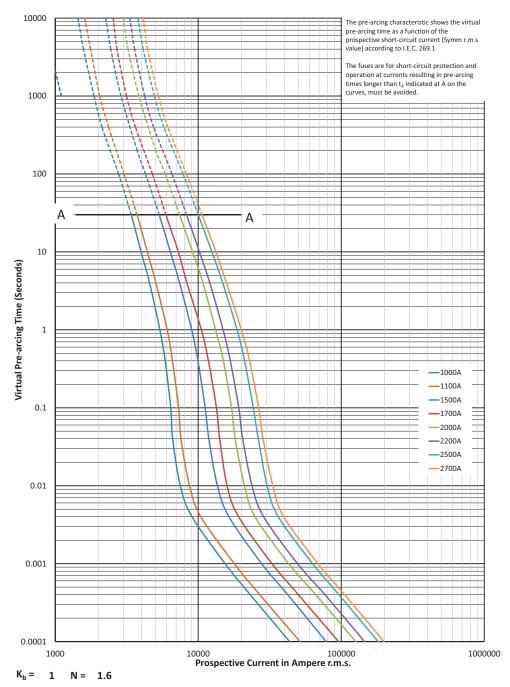
Dimensions (mm) - 4SBKN/90



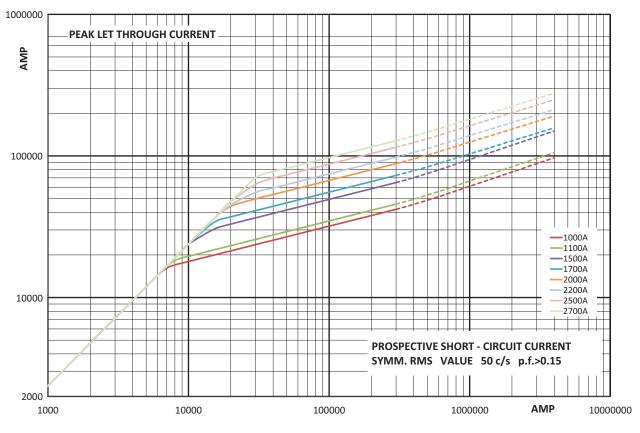
EATON Eaton's Bussmann series IEC High speed fuse links catalogue

170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A

Time-current curve - IEC Certified fuses - 1000 A to 2700 A



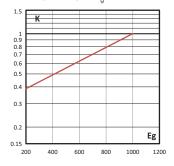
170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A



Cut-off curve - IEC Certified fuses - 1000 A to 2700 A

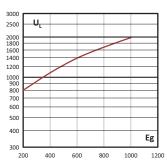
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



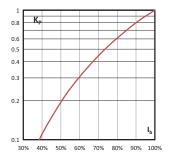
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



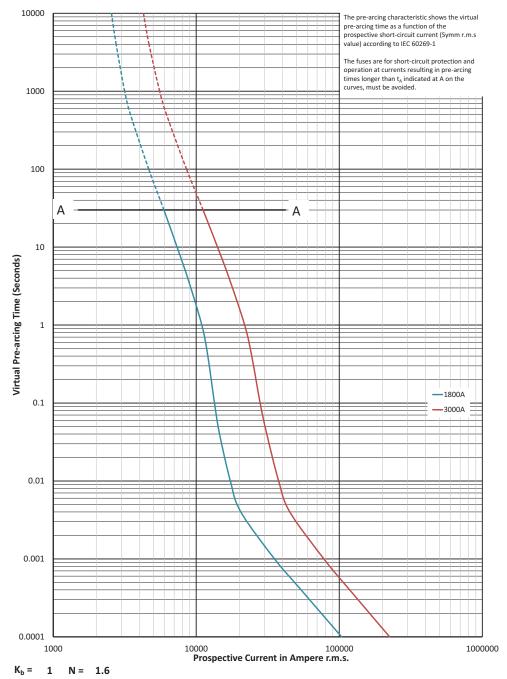
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.

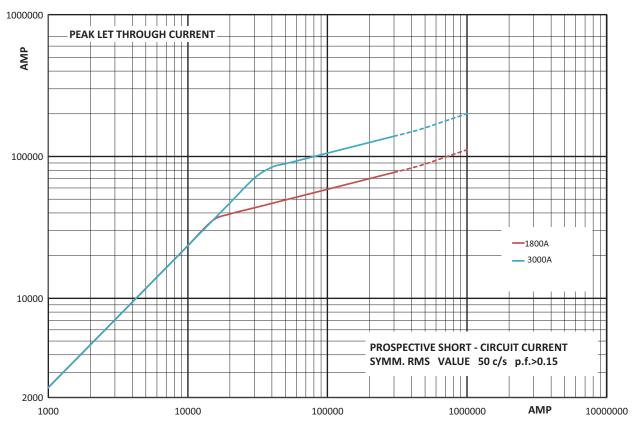


170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A

Time-current curve - IEC Certified fuses - 1800 A and 3000 A



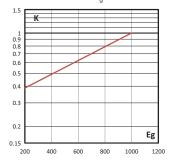
170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A



Cut-off curve - IEC Certified fuses - 1800 A and 3000 A

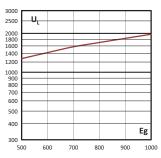
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



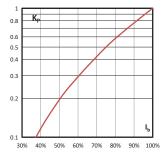
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



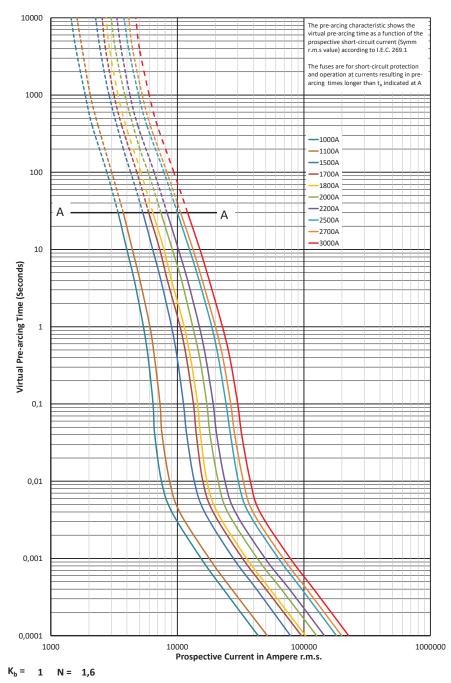
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



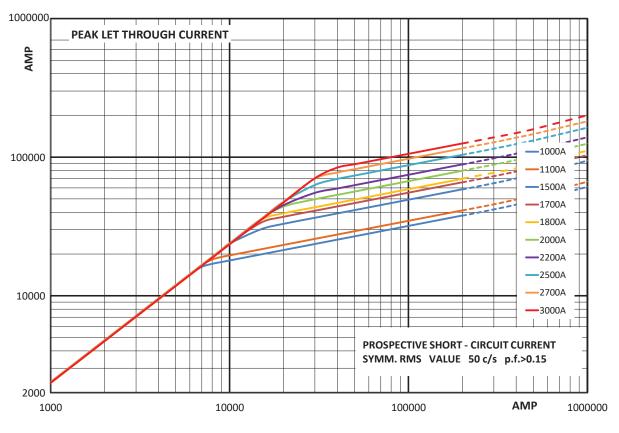
170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A

Time-current curve - IEC and UL Certified fuses - 1000 A to 3000 A



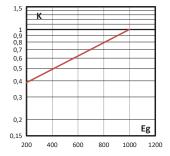
170M - Size 4, Flush end contact, 1000 V a.c. (IEC and IEC/UL), 1000 A to 3000 A

Cut-off curve - IEC and UL Certified fuses - 1000 A to 3000 A



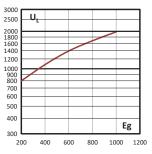
Total clearing l²t

The total clearing l^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



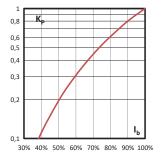
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
- 1250 V a.c. (IEC)
- 1200 V d.c. (UL)
- Rated current: 800 A to 2500 A
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4, UL



Catalogue numbers

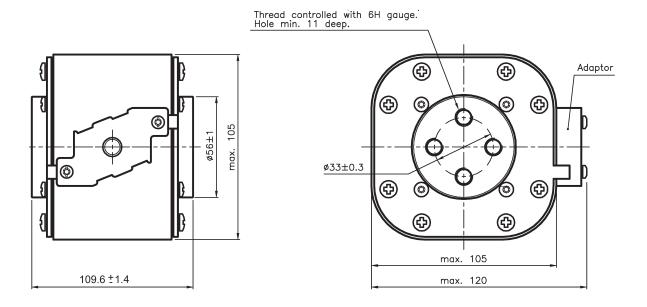
| Fuse link | AC | | DC | | — Rated | I²t (A² Sec) | l²t (A² Sec) | | Catalogue number | Catalogue numbers | | |
|--------------|------------------|----------------------|------------------|-----------------------------|-------------------|--------------|----------------------------|--|------------------------------|-------------------------------|--|--|
| body size | Rated voltage | Breaking capacity | Rated voltage | Breaking capacity | current (Amps) | Pre-arcing | Clearing at 1250 V a.c. | Watts loss (W) | -BKN/110 Type K indicator | -SBKN/105 Type K indicator | | |
| | | | | | 800 | 145,000 | 905,000 | 195 | 170M7802 | - | | |
| | | | | | 1000 | 275,000 | 1,750,000 | 220 | 170M7803 | - | | |
| | | | | | 1200 | 495,000 | 3,100,000 | 240 | 170M7804 | - | | |
| | | | | | 1400 | 800,000 | 5,000,000 | 250 | 170M72171 | 170M7512 | | |
| | | 100 kA | 1000 V d.c. | 180 ka ir ul 85 ka ir ul | 1500 | 1,000,000 | 6,200,000 | 260 | 170M7597 | 170M7510 | | |
| 4 | 1250 V a.c. | | | | 1700 | 1,400,000 | 8,700,000 | 275 | 170M7676 | 170M7511 | | |
| | | | 1200 V d.c. | | 1800 | 1,700,000 | 11,000,000 | 280 | 170M7532 | 170M7976 | | |
| | | | | | 2000 | 2,300,000 | 14,500,000 | 305 | 170M7633 | 170M7513 | | |
| | | | | | 2200 | 3,100,000 | 19,500,000 | 315 | 170M7592 | 170M7546 | | |
| | | | | | 2400 | 4,000,000 | 25,000,000 | 330 | 170M7107 | 170M7516 | | |
| | | | | | 2500 | 4,500,000 | 28,000,000 | 340 | 170M7595 ² | 170M7978 | | |

¹ 170M7217 rated 850 V d.c./1250 V a.c. (IEC), 1000 V d.c. 180 kA IR (UL), 1200 V d.c. 85 kA IR (UL)

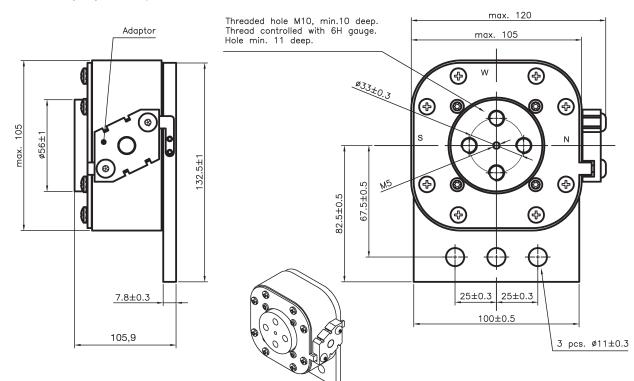
² 170M7595 rated at 1200V d.c. 85kA only at 2ms time constant

170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Dimensions (mm) - 4BKN/110

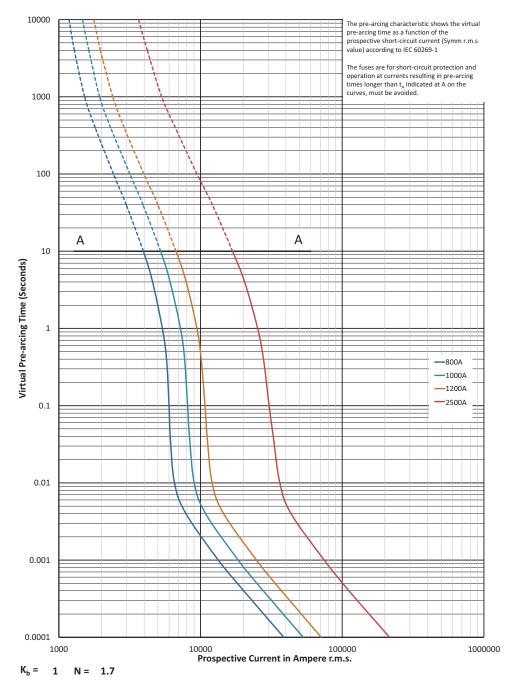


Dimensions (mm) - 4SBKN/105



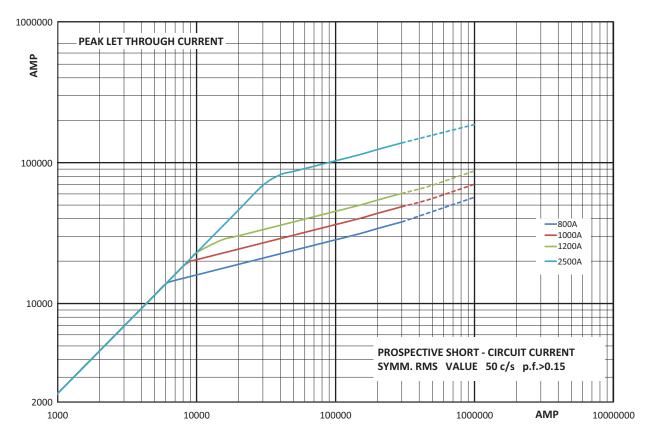
170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Time-current curve - 800 A to 2500 A



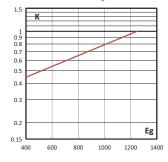
170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Cut-off curve - 800 A to 2500 A



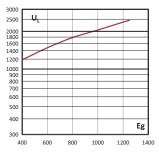
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



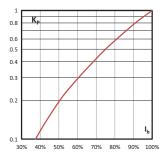
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



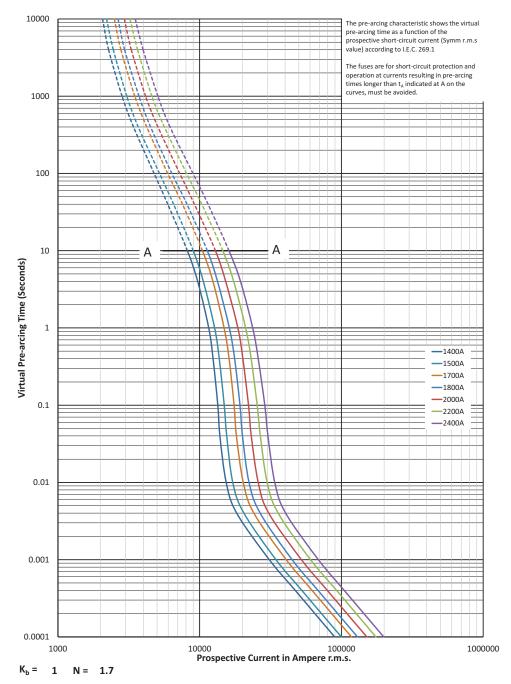
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



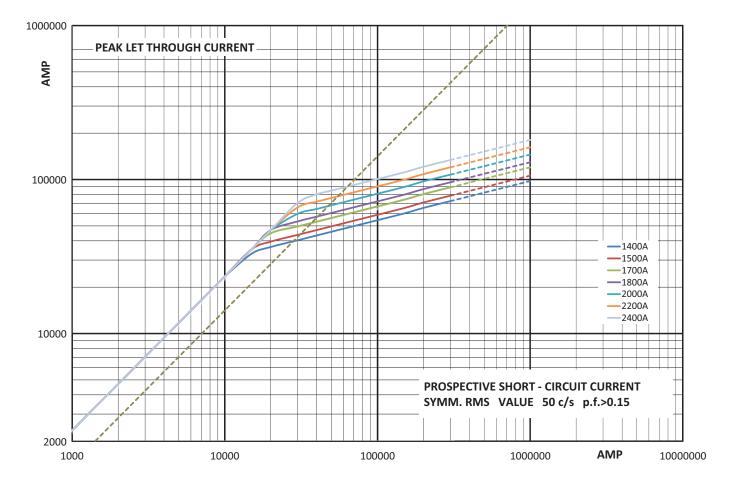
170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Time-current curve - 1400 A to 2400 A



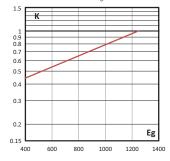
170M - Size 4, Flush end contact, 1250 V a.c. (IEC), 800 A to 2500 A

Cut-off curve - 1400 A to 2400 A



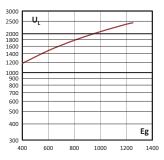
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{α} , (RMS).



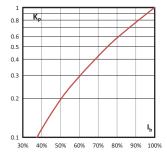
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 660 V a.c. (IEC, 1000 A to 3000 A)
 - 600 V a.c. (IEC, 3500 A)
- 550 V a.c. (IEC, 4000 A)
- Rated current: 1000 A to 4000 A
- Breaking capacity: 100 kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4

Catalogue numbers



| | | | I²t (A² Sec) | | _ | Catalogue n | umbers | | | | |
|------------------------|---------------------|----------------------------|--------------|---------------------------|----------------------|-------------|--------------------------------|--------------------------------|----------|--------------------------------|--------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | -BU/55 | -BKE/55 Type K indicator | -BKN/55 Type K indicator | -GU/55 | -GKE/55 Type K Indicator | -GKN/55 Type K Indicator |
| | | 1000 | 79,000 | 530,000 | 170 | 170M6858 | 170M6898 | 170M6878 | 170M6918 | 170M6958 | 170M6938 |
| | | 1100 | 95,000 | 635,000 | 185 | 170M6859 | 170M6899 | 170M6879 | 170M6919 | 170M6959 | 170M6939 |
| | | 1250 | 155,000 | 1,050,000 | 190 | 170M6860 | 170M6900 | 170M6880 | 170M6920 | 170M6960 | 170M6940 |
| | | 1400 | 200,000 | 1,350,000 | 210 | 170M6861 | 170M6901 | 170M6881 | 170M6921 | 170M6961 | 170M6941 |
| | | 1500 | 240,000 | 1,650,000 | 215 | 170M6862 | 170M6902 | 170M6882 | 170M6922 | 170M6962 | 170M6942 |
| | 660 V a.c. (IEC) | 1600 | 315,000 | 2,150,000 | 220 | 170M6863 | 170M6903 | 170M6883 | 170M6923 | 170M6963 | 170M6943 |
| | (120) | 1800 | 450,000 | 3,050,000 | 230 | 170M6864 | 170M6904 | 170M6884 | 170M6924 | 170M6964 | 170M6944 |
| 23 | | 2000 | 625,000 | 4,200,000 | 240 | 170M6865 | 170M6905 | 170M6885 | 170M6925 | 170M6965 | 170M6945 |
| | | 2200 | 805,000 | 5,400,000 | 255 | 170M6866 | 170M6906 | 170M6886 | 170M6926 | 170M6966 | 170M6946 |
| | | 2500 | 1,250,000 | 8,350,000 | 265 | 170M6867 | 170M6907 | 170M6887 | 170M6927 | 170M6967 | 170M6947 |
| | | 3000 | 2,250,000 | 15,500,000 | 285 | 170M6868 | 170M6908 | 170M6888 | 170M6928 | 170M6968 | 170M6948 |
| | 600 V a.c. (IEC) | 3500 | 3,450,000 | 21,000,000 ¹ | 315 | 170M6869 | 170M6909 | 170M6889 | 170M6929 | 170M6969 | 170M6949 |
| | 550 V a.c. (IEC) | 4000 | 5,000,000 | 27,500,000 ² | 340 | 170M6870 | 170M6910 | 170M6890 | 170M6930 | 170M6970 | 170M6950 |

¹ Clearing at 600 V a.c.

 $^{\rm 2}$ Clearing at 550 V a.c.

When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

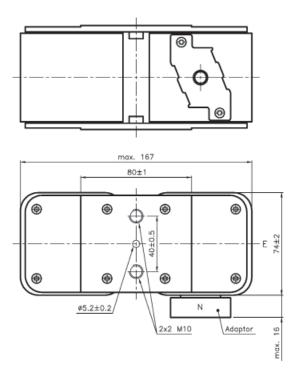
Data sheet: 170K6326

 52 ± 0.8

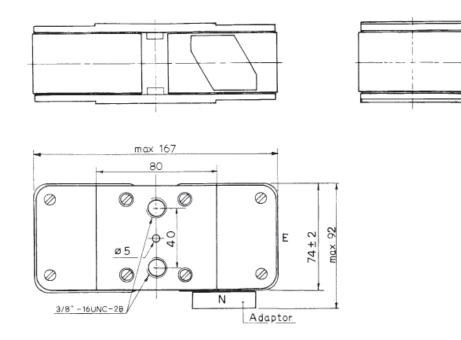
 52 ± 0.8

170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

Dimensions (mm) -BU/55, -BKE/55 and -BKN/55



Dimensions (mm) -GU/55, -GKE/55 and -GKN/55

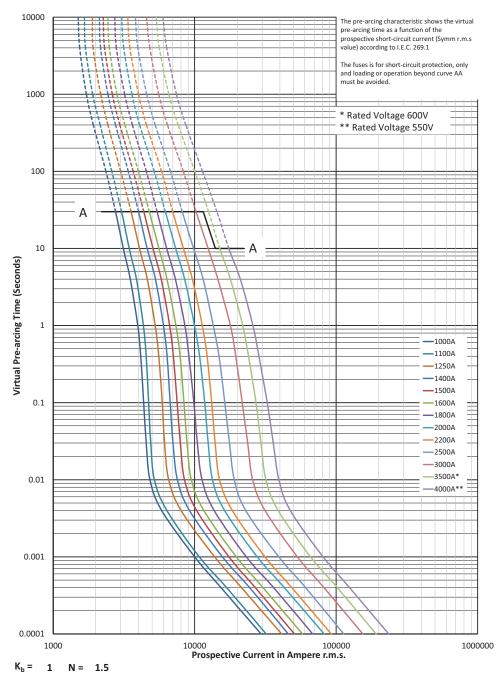


Type -GU/55, -GKE/55, -GKN/55

When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

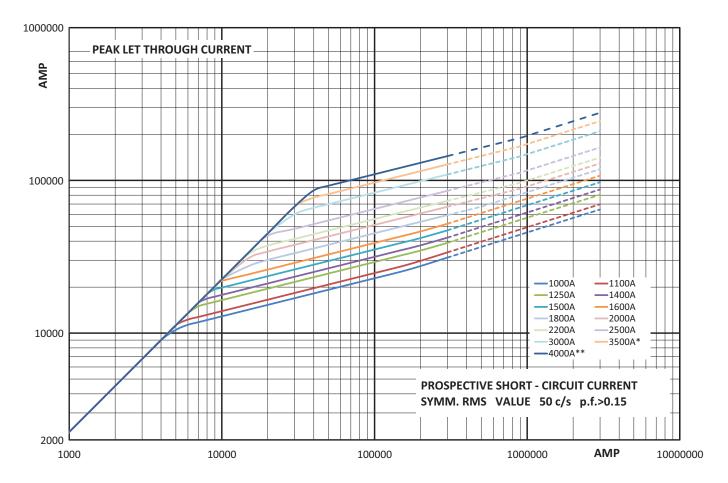
Time-current curve - 1000 A to 4000 A



Data sheet: 170K6326

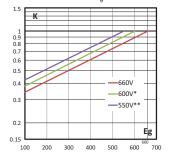
170M - Size 23, Flush end contact, 660 V a.c. (IEC), 1000 A to 4000 A

Cut-off curve - 1000 A to 4000 A



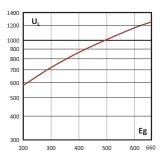
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



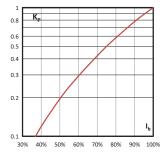
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Size 23, Flush end contact, 1250 V a.c. (IEC), 630 A to 2800 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage:
 - 1250 V a.c. (IEC 630 A to 2200 A)
 - 1100 V a.c. (IEC 2500 A and 2800 A)
- Rated current: 630 A to 2800 A
- Breaking capacity: 125kA RMS Sym
- Operating class: aR

Standards / Agency information

CE, Designed and tested to IEC 60269 Part 4 $\,$

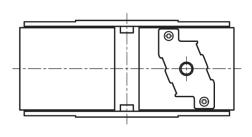
Catalogue numbers

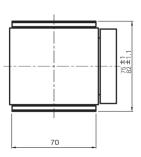


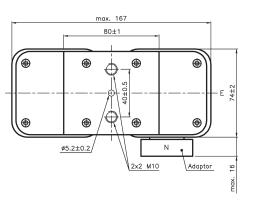
| | | | I²t (A² Sec) | | | Catalogue n | umbers | | | | |
|-------------------------|----------------------|----------------------------|-----------------|----------------------------|----------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1250 V a.c. | Watts loss (W) | -BU/75 Visual indicator | -BKE/75 Type K indicator | -BKN/75 Type K indicator | -BU/80 Visual indicator | -BKE/80 Type K Indicator | -BKN/80 Type K Indicator |
| | | 630 | 38,000 | 310,000 | 170 | 170M6775 | 170M6795 | 170M6785 | | | |
| | | 700 | 54,000 | 440,000 | 180 | 170M6776 | 170M6796 | 170M6786 | _ | | |
| | | 800 | 78,000 | 640,000 | 190 | 170M6777 | 170M6797 | 170M6787 | _ | | |
| | 1250 V a.c. (IEC) | 900 | 120,000 | 980,000 | 200 | 170M6805 | 170M6807 | 170M6806 | _ | | |
| | | 1000 | 155,000 | 1,250,000 | 210 | 170M6778 | 170M6798 | 170M6788 | _ | | |
| | | 1100 | 220,000 | 1,750,000 | 220 | 170M6779 | 170M6799 | 170M6789 ³ | _ | | |
| 22 | | 1250 | 330,000 | 2,700,000 | 230 | 170M6780 | 170M6800 | 170M6790 | _ | | |
| 23 | | 1300 | 460,000 | 3,800,000 | 240 | 170M6781 | 170M6801 | 170M6791 | _ | | |
| | | 1600 | 820,000 | 5,200,000 | 250 | 170M6782 | 170M6802 | 170M6792 | _ | | |
| | | 1800 | 1,200,000 | 7,600,000 | 260 | 170M6783 ² | 170M6803 ² | 170M6793 ² | _ | | |
| | | 2000 | 1,800,000 | 11,000,000 | 270 | | | | 170M6784 | 170M6804 | 170M6794 |
| | | 2100 | 2,300,000 | 14,500,000 | 280 | _ | | | 170M6815 | 170M6833 | 170M6827 |
| | 1100 V a.c. | 2500 | 3,200,000 | 16,000,000 ¹ | 290 | _ | | | 170M6816 | 170M6834 | 170M6828 |
| | (IEC) | 2800 | 5,000,000 | 24,000,000 ¹ | 300 | _ | | | 170M6817 | 170M6835 | 170M6829 |
| ¹ Clearing a | t 1000 V | ² F | Rated voltage 9 | 00 V d.c. 10XIn § | 90 kA | ³ 1000 V | d.c. UL 50 k | A IR | | | |

When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

Dimensions (mm)



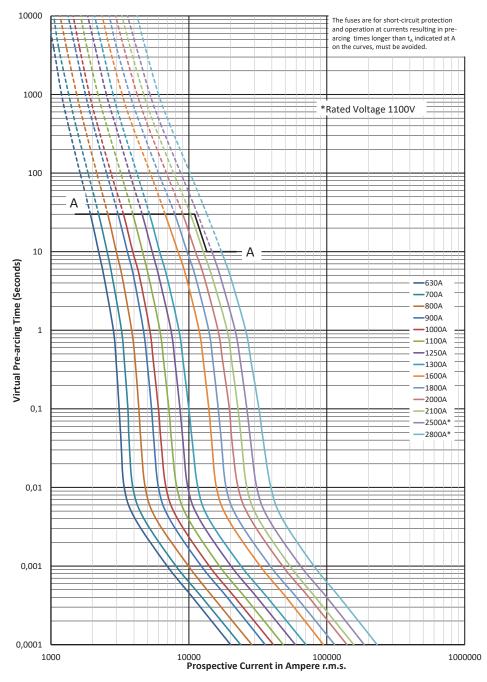




Data sheet: 170K6638

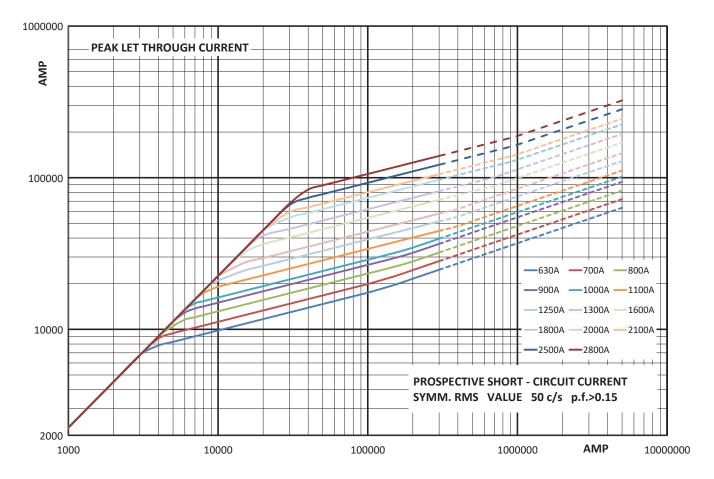
170M - Size 23, Flush end contact, 1250 V a.c. (IEC), 630 A to 2800 A

Time-current curve - 630 A to 2800 A



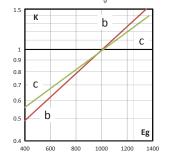
170M - Size 23, Flush end contact, 1250 V a.c. (IEC), 630 A to 2800 A

Cut-off curve - 630 A to 2800 A



Total clearing l²t

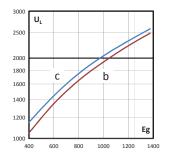
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



B: fuses ≤ 1400 A C: fuses ≥ 1600 A

Arc voltage

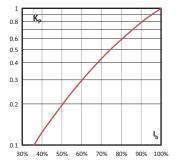
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



B: fuses ≤ 1400 A C: fuses ≥ 1600 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheet: 170K6638

170M - Size 24, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 2000 A to 6500 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

Technical data

- Rated voltage: 690 V a.c. (IEC) / 700 V a.c. (UL)
- Rated current: 2000 A to 6500 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

Standards / Agency information

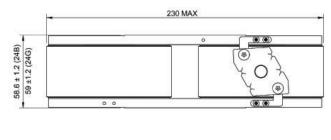
CE, Designed and tested to IEC 60269 Part 4, UL Recognised

Catalogue numbers

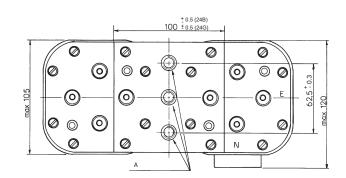


| | | Rated | I²t (A² Sec) | | | Catalogue numb | ers | | |
|--------------------------------------|-------------------------------------|-------------------|--------------|---------------------------|-------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|
| Fuse link body size Rated voltage | Rated voltage | current (Amps) | Pre-arcing | Clearing at 660 V a.c. | Watts loss (W) | -BU/60 Without indicator | -BKN/60 Type K indicator | -GU/60 Without indicator | -GKN/60 Type K indicator |
| | | 2000 | 340,000 | 2,300,000 | 340 | 170M7138 | 170M7158 | 170M7198 | 170M7218 |
| | | 2500 | 650,000 | 4,350,000 | 390 | 170M7139 | 170M7159 | 170M7199 | 170M7219 |
| | | 3000 | 1,100,000 | 7,300,000 | 430 | 170M7140 | 170M7160 | 170M7200 | 170M7220 |
| | | 3500 | 1,800,000 | 12,000,000 | 460 | 170M7141 | 170M7161 | 170M7201 | 170M7221 |
| 24 | 690 V a.c. (IEC) 700 V a.c. (UL) | 4000 | 2,700,000 | 18,000,000 | 490 | 170M7142 | 170M7162 | 170M7202 | 170M7222 |
| 24 | 700 V a.c. (OL) | 4500 | 3,800,000 | 25,500,000 | 520 | 170M7143 | 170M7163 | 170M7203 | 170M7223 |
| | | 5000 | 5,450,000 | 36,500,000 | 540 | 170M7144 | 170M7164 | 170M7204 | 170M7224 |
| | | 5500 | 7,400,000 | 49,500,000 | 560 | 170M7145 | 170M7165 | 170M7205 | 170M7225 |
| | | 6000 | 9,600,000 | 64,000,000 | 580 | 170M7146 | 170M7166 | 170M7206 | 170M7226 |
| | | 6500 | 12,500,000 | 83,000,000 | 600 | 170M7147 | 170M7167 | 170M7207 | 170M7227 |

Dimensions (mm)



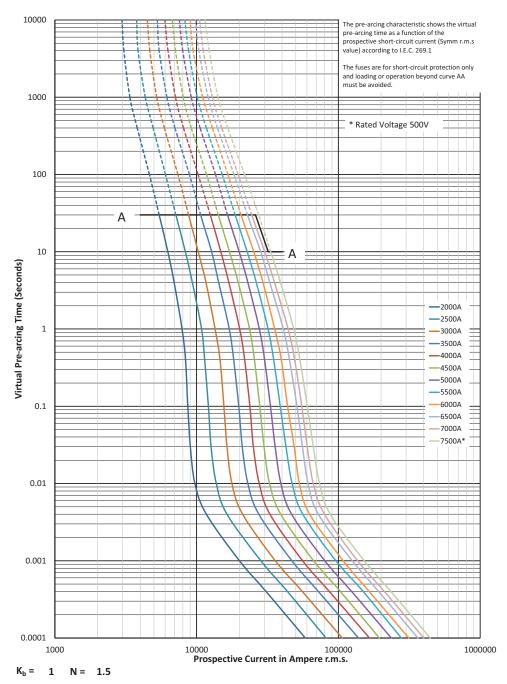
| Size | Туре | Α |
|------|------|-------------------|
| 24 | BKN | 2x3 M12 |
| 24 | GKN | 2x3 ½" -13 UNC-2B |



When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com

170M - Size 24, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 2000 A to 6500 A

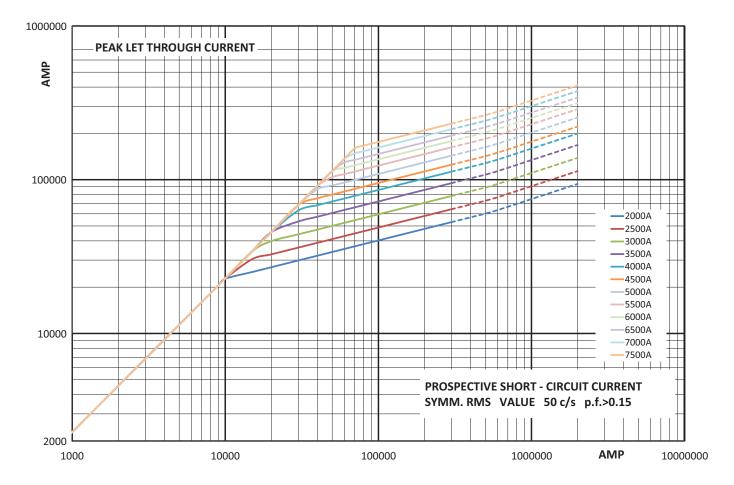
Time-current curve - 2000 A to 7500 A



Data sheet: 170K6332

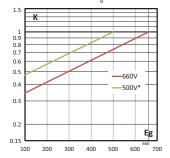
170M - Size 24, Flush end contact, 690 V a.c. (IEC), 700 V a.c. (UL), 2000 A to 6500 A

Cut-off curve - 2000 A to 7500 A



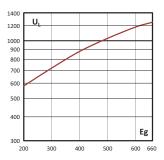
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



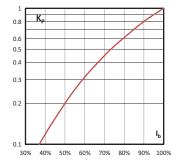
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Size 24, Flush end contact, 1000 V a.c. (IEC and UL), 2000 A to 5000 A

Specifications

Description

Square body, flush end contact, high speed fuse links, for the protection of power rectifiers.

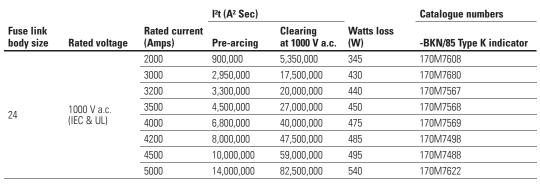
Technical data

- Rated voltage: 1000 V a.c. (IEC and UL)
- Rated current: 2000 A to 5000 A
- Breaking capacity: 166 kA RMS Sym / 100 kA RMS (UL)
- Operating class: aR

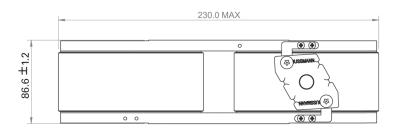
Standards / Agency information

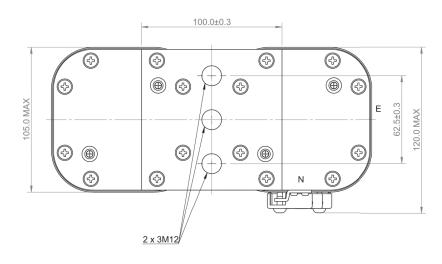
CE, Designed and tested to IEC 60269 Part 4, UL Recognised

Catalogue numbers



Dimensions (mm)





The normal position of the indicator is as shown position N, position E on request only

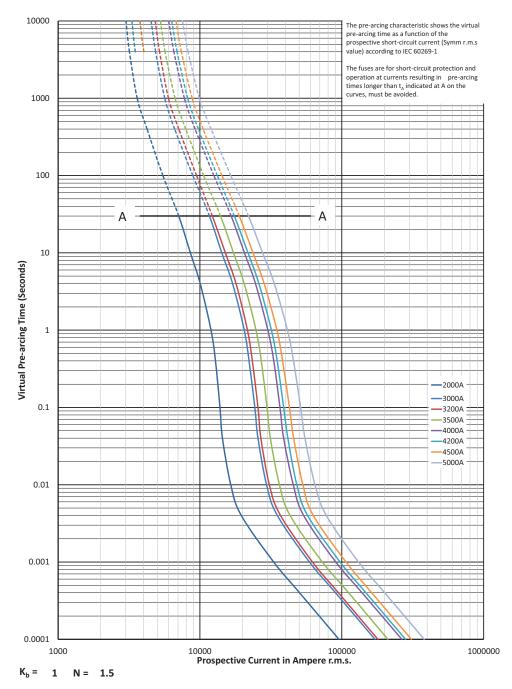
When using these fuse links, please consult Eaton for application assistance at bulehighspeedtechnical@eaton.com.

Data sheets: 170K8514



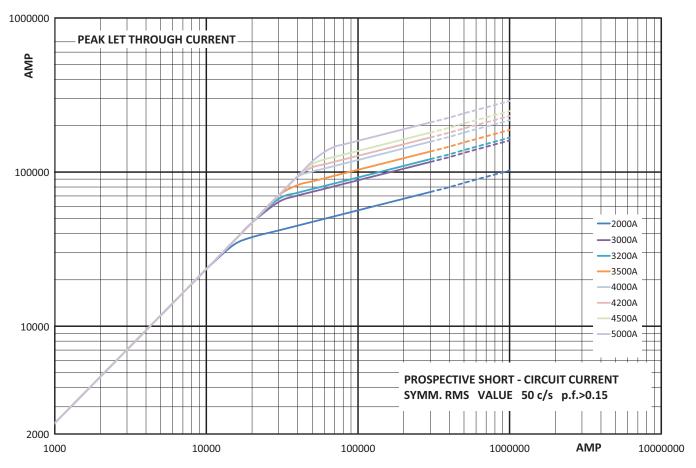
170M - Size 24, Flush end contact, 1000 V a.c. (IEC and UL), 2000 A to 5000 A

Time-current curve - 2000 A to 5000 A



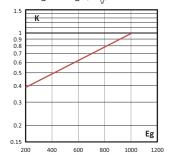
170M - Size 24, Flush end contact, 1000 V a.c. (IEC and UL), 2000 A to 5000 A

Cut-off curve - 2000 A to 5000 A



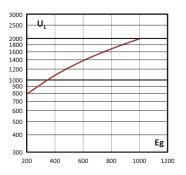
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



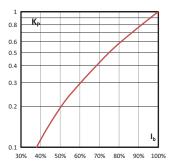
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Size 5, Flush end contact, 1100-2000 V a.c. (IEC), 1800 A to 5500 A

Specifications

Description

Square body flush end contact high speed fuse links, for the protection or isolation for components such as diodes, silicon controlled rectifiers (SCRs), Gate Turn-Off Thrystors (GTOs) and IGBTs. Typical application include AC and DC drives, high power rectifiers.

Technical data

- Rated voltage: 1100-2000 V a.c. (IEC)
- Rated current: 1800 A to 5500 A
- Breaking capacity: 300 kA RMS Sym. estimated: 197 kA tested
- Operating class: aR

Standards / Agency information

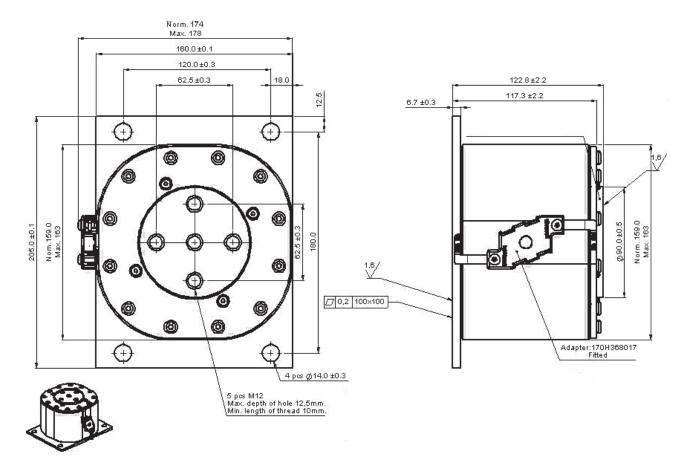
Consult Eaton bulehighspeedtechnical@eaton.com

Catalogue Numbers

Consult Eaton bulehighspeedtechnical@eaton.com

Dimensions (mm)





This dimension drawing is an example of the range of size 5 fuse links available.

DFJ - Drive fuse links, 600 V a.c. / 450 V d.c. (UL), 1 A to 600 A

Specifications

Description

Bolted tags high speed fuse links that provide maximum protection for AC and DC drives and controllers. The DFJ fuse link has the lowest I2t of any branch circuit fuse to protect power semi-conductor devices that utilise diodes, GTOs, SCRs and SSRs. The DFJ fuse links combine the performance of high speed fuse links and the convenience of Class J branch circuit fuse links, allowing the use of readily available Class J fuse blocks, holders and switches.

Technical data

- Rated voltage: 600 V a.c. / 450 V d.c. (UL)
- Rated current: 1 A to 600 A
- Breaking capacity: 200 kA RMS Sym., 100 kA DC
- Operating class: aR
- •

Standards / Agency information

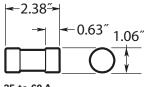
UL Listed, Std 248-8, Class J, Guide JDDZ, File E4273 CSA Certified, C22-2 No 248.8, Class 1422-02, File 53787 meets NEC branch circuit protection.

Catalogue numbers

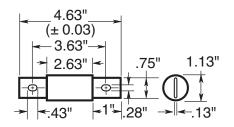
| Rated voltage | Rated current (Amps) | Catalogue numbers |
|---------------------|-------------------------|----------------------|
| | 1 | DFJ-1 |
| | 2 | DFJ-2 |
| | 3 | DFJ-3 |
| | 4 | DFJ-4 |
| | 5 | DFJ-5 |
| | 6 | DFJ-6 |
| | 8 | DFJ-8 |
| 600 V a.c./ | 10 | DFJ-10 |
| 450 V d.c. | 12 | DFJ-12 |
| (UL) | 15 | DFJ-15 |
| | 20 | DFJ-20 |
| | 25 | DFJ-25 |
| | 30 | DFJ-30 |
| | 40 | DFJ-40 |
| | 45 | DFJ-45 |
| | 50 | DFJ-50 |
| | 60 | DFJ-60 |
| 600 700 | 70 | DFJ-70 |
| 600 -700 V a.c./ | 80 | DFJ-80 |
| 450 V d.c. | 90 | DFJ-90 |
| (UL) | 100 | DFJ-100 |
| | 110 | DFJ-110 |
| | 125 | DFJ-125 |
| | 150 | DFJ-150 |
| | 175 | DFJ-175 |
| | 100 | DFJ-100 |
| 600 V a.c./ | 225 | DFJ-225 |
| 450 V d.c. | 250 | DFJ-250 |
| (UL) | 300 | DFJ-300 |
| | 350 | DFJ-350 |
| | 400 | DFJ-400 |
| | 450 | DFJ-450 |
| | 500 | DFJ-500 |
| | 600 | DFJ-600 |

Dimensions (in)

| <mark>≺</mark> 2.25 ″≻ | |
|-----------------------------------|-----------------------|
| | - −0.50″ 0.81″ |
| | |

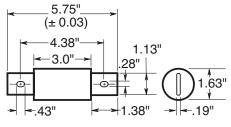


35 to 60 A



70 to 100 A

1 to 30 A



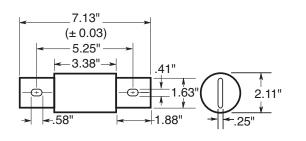


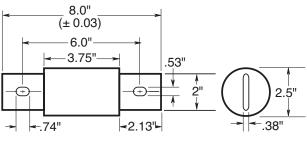
Data sheet: 1048



DFJ - Drive fuse links, 600 V a.c. / 450 V d.c. (UL), 1 A to 600 A

Dimensions (in)

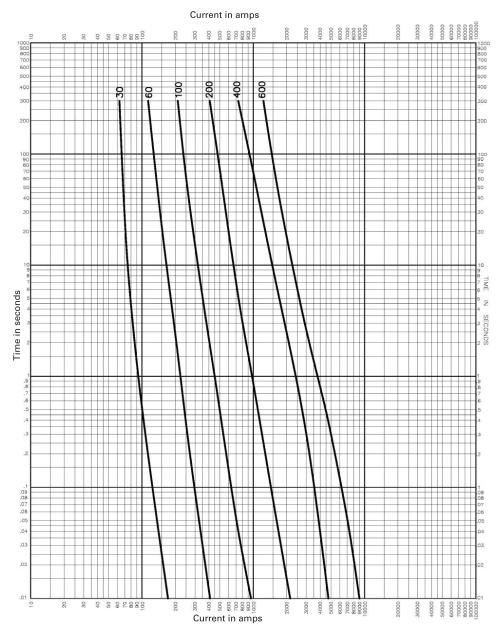




225 to 400 A



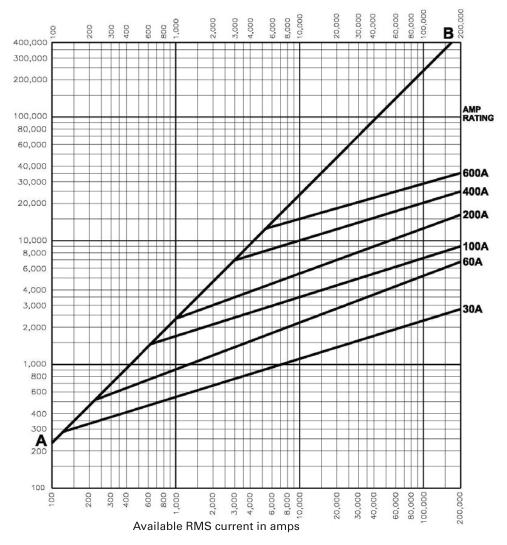
Time-current curve - 30 A to 600 A



Data sheet: 1048

DFJ - Drive fuse links, 600 V a.c. / 450 V d.c. (UL), 1 A to 600 A

Cut-off curve - 30 A to 600 A



Peak current in amps

Data sheet: 1048

260

170M - Sizes 000 and 230, IGBT fuse links, 750 V d.c. (IEC), 800 V d.c. (UL), 25 A to 630 A

Specifications

Description

Bolted tags high speed fuse links for the protection of IGBT modules, optimised for use in IGBT inverter circuits with DC link rated voltages up to 750 V d.c.. Low inductance \leq 15nH.

Technical data

- Rated voltage:
 - 750 V d.c. tested at 863V d.c. according to IEC 60269-4
 - 800 V d.c. tested at 800 V d.c. according to UL 248-1
- Rated current: 25 A to 630 A
- Breaking capacity: 50 kA DC (1ms tc) at 800 V d.c.
- Operating class: aR

Standards / Agency information

UL DC Recognised, 800 V d.c. L/R 1 mS max

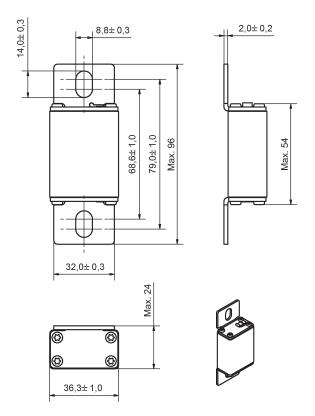


Catalogue numbers

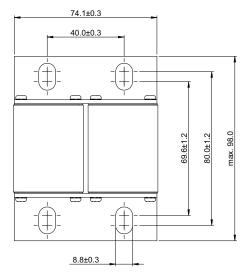
| Fuse link | | Rated current | I²t (A² Sec) | ² t (A ² Sec) Watts loss | | Catalogue numbers | | |
|-----------|------------------|---------------|--------------|--|----------|-------------------|--|--|
| body size | Rated voltage | (Amps) | Pre-arcing | (W) | -FU/70 | -FN/70 | | |
| | | 25 | 25 | 12 | 170M1750 | 170M1730 | | |
| | | 32 | 45 | 13 | 170M1751 | 170M1731 | | |
| | | 40 | 75 | 14 | 170M1752 | 170M1732 | | |
| | | 50 | 135 | 16 | 170M1753 | 170M1733 | | |
| 000 | | 63 | 260 | 17 | 170M1754 | 170M1734 | | |
| | 750 V d.c. (IEC) | 80 | 460 | 20 | 170M1755 | 170M1735 | | |
| | | 100 | 795 | 25 | 170M1756 | 170M1736 | | |
| | 800 V d.c. (UL) | 125 | 1300 | 29 | 170M1757 | 170M1737 | | |
| | | 160 | 2550 | 34 | 170M1758 | 170M1738 | | |
| | | 200 | 4350 | 40 | 170M1759 | 170M1739 | | |
| | | 250 | 7400 | 48 | 170M1760 | 170M1740 | | |
| | | 315 | 12,500 | 60 | 170M1761 | 170M1741 | | |
| | | 350 | 17,000 | 65 | 170M1762 | 170M1742 | | |
| | | 100 | 380 | 35 | 170M1770 | 170M1785 | | |
| | | 125 | 645 | 42 | 170M1771 | 170M1786 | | |
| | | 160 | 1350 | 47 | 170M1772 | 170M1787 | | |
| | | 200 | 2550 | 54 | 170M1773 | 170M1788 | | |
| | | 250 | 4950 | 62 | 170M1774 | 170M1789 | | |
| 230 | 750 V d.c. (IEC) | 315 | 9350 | 72 | 170M1775 | 170M1790 | | |
| 230 | 800 V d.c. (UL) | 350 | 12,000 | 78 | 170M1776 | 170M1791 | | |
| | | 400 | 18,500 | 80 | 170M1777 | 170M1792 | | |
| | | 450 | 27,000 | 85 | 170M1778 | 170M1793 | | |
| | | 500 | 37,500 | 90 | 170M1779 | 170M1794 | | |
| | | 550 | 48,500 | 95 | 170M1780 | 170M1795 | | |
| | | 630 | 69,500 | 105 | 170M1781 | 170M1796 | | |

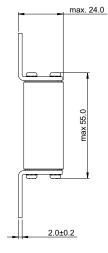
170M - Sizes 000 and 230, IGBT fuse links, 750 V d.c. (IEC), 800 V d.c. (UL), 25 A to 630 A

Dimensions (mm) - Size 000



Dimensions (mm) - Size 230



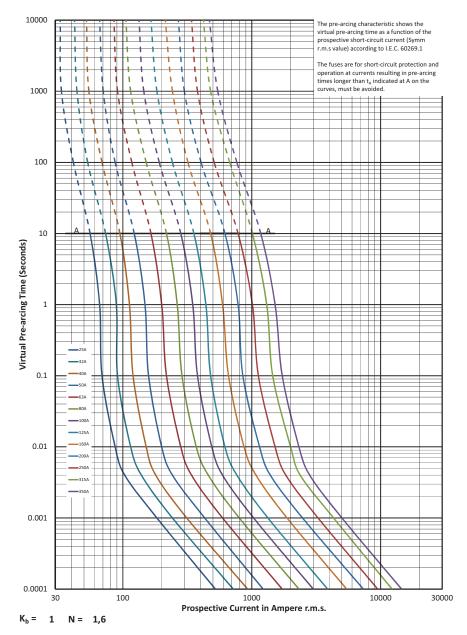


| 0 | 00 | Ø |
|---|-----------|---|
| 0 | 00 | Ô |
| _ | max. 78.0 | |

Data sheets: 170K6422 (Size 000), 170K6426 (Size 230)

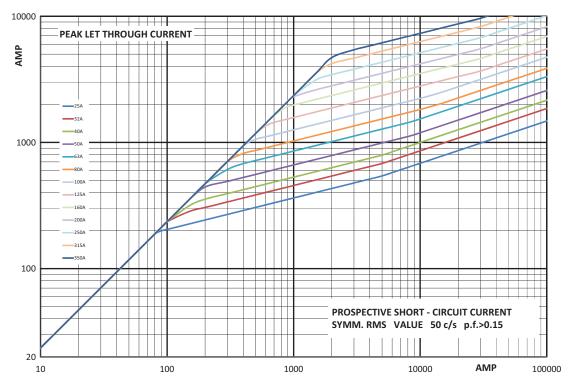
170M - Sizes 000 and 230, IGBT fuse links, 750 V d.c. (IEC), 800 V d.c. (UL), 25 A to 630 A

Time-current curve - Size 000, 25 A to 350 A



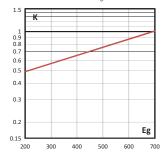
170M - Sizes 000 and 230, IGBT fuse links, 750 V d.c. (IEC), 800 V d.c. (UL), 25 A to 630 A

Cut-off curve - Size 000, 25 A to 350 A



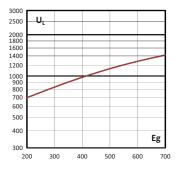
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{g} , (RMS).



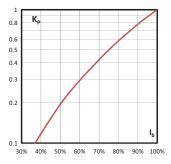
Arc voltage

This curve gives the peak arc voltage, U₁, which may appear across the fuse during its operation as a function of the applied working voltage, E_{a} , (RMS) at a power factor of 15 percent.



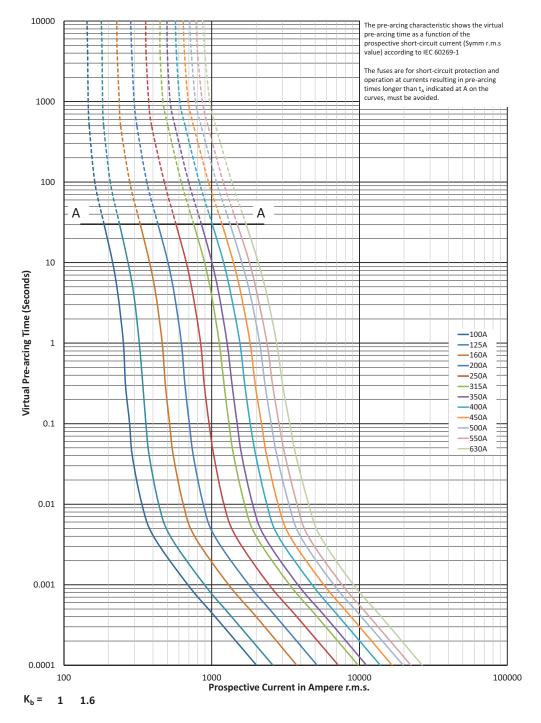
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{_{\rm p}}$, is given as a function of the RMS load current, $\rm I_{_b}$, in percent of the rated current.



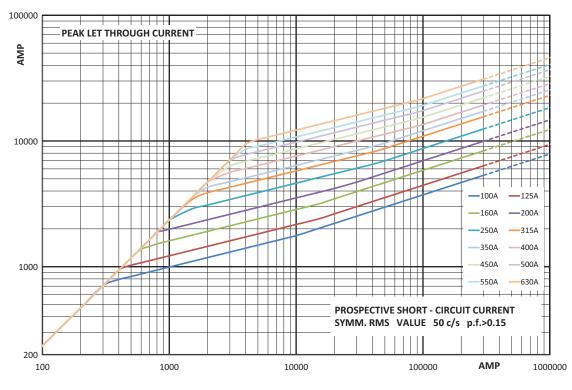
170M - Sizes 000 and 230, IGBT fuse links, 750 V d.c. (IEC), 800 V d.c. (UL), 25 A to 630 A

Time-current curve - Size 230, 100 A to 630 A



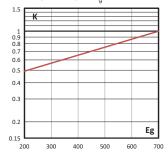
170M - Sizes 000 and 230, IGBT fuse links, 750 V d.c. (IEC), 800 V d.c. (UL), 25 A to 630 A

Cut-off curve - Size 230, 100 A to 630 A



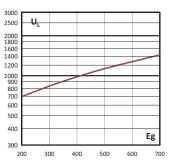
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



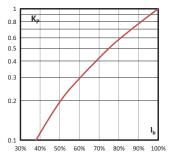
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170M - Sizes 000 and 230, IGBT fuse links, 1000 V d.c. (IEC and UL), 25 A to 500 A

Specifications

Description

High speed bolted tags high speed fuse links for the protection of IGBT modules, optimised for use in IGBT inverter circuits with DC link rated voltages up to 1000 V d.c.. Low inductance \leq 20nH.

Technical data

- Rated voltage: 1000 V d.c. tested at 1000 V d.c. according to UL 248-1
- Rated current: 25 A to 500 A
- Breaking capacity: 50 kA DC (1ms tc UL)
- Operating class: aR

Standards / Agency information

UL DC Recognised, 1000 V d.c. L/R 1mS max.

CE

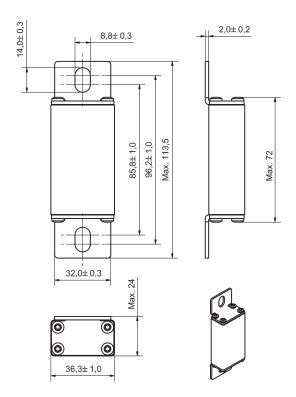


Catalogue numbers

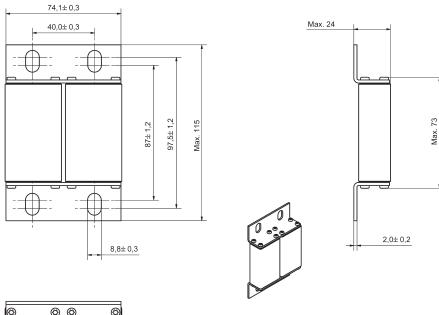
| Fuse link body size | | Rated current | I²t (A² Sec) | — Watts loss | Catalogue numbers | | |
|------------------------|---------------------|---------------|--------------|--------------|-------------------|----------|--|
| | Rated voltage | (Amps) | Pre-arcing | (W) | -FU/90 | -FN/90 | |
| | | 25 | 19 | 14 | 170M1802 | 170M1842 | |
| | | 32 | 34 | 17 | 170M1803 | 170M1843 | |
| | | 40 | 61 | 20 | 170M1804 | 170M1844 | |
| | | 50 | 135 | 21 | 170M1805 | 170M1845 | |
| | | 63 | 245 | 22 | 170M1806 | 170M1846 | |
| 000 | 1000 \/ d a // \ | 80 | 505 | 27 | 170M1807 | 170M1847 | |
| 000 | 1000 V d.c. (UL) | 100 | 1050 | 32 | 170M1808 | 170M1848 | |
| | | 125 | 1900 | 34 | 170M1809 | 170M1849 | |
| | | 160 | 4050 | 37 | 170M1810 | 170M1850 | |
| | | 200 | 8500 | 43 | 170M1811 | 170M1851 | |
| | | 225 | 12,000 | 45 | 170M1812 | 170M1852 | |
| | | 250 | 16,000 | 48 | 170M1813 | 170M1853 | |
| | | 100 | 600 | 38 | 170M1824 | 170M1860 | |
| | | 125 | 1200 | 42 | 170M1825 | 170M1861 | |
| | | 160 | 2550 | 48 | 170M1826 | 170M1862 | |
| | | 200 | 4650 | 55 | 170M1827 | 170M1863 | |
| 200 | 1000 \/ -1 - (111 \ | 250 | 9300 | 62 | 170M1828 | 170M1864 | |
| 230 | 1000 V d.c. (UL) | 315 | 18,500 | 68 | 170M1829 | 170M1865 | |
| | | 350 | 24,500 | 75 | 170M1830 | 170M1866 | |
| | | 400 | 37,500 | 80 | 170M1831 | 170M1867 | |
| | | 450 | 52,000 | 85 | 170M1832 | 170M1868 | |
| | | 500 | 69,500 | 90 | 170M1833 | 170M1869 | |

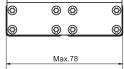
170M - Sizes 000 and 230, IGBT fuse links, 1000 V d.c. (IEC and UL), 25 A to 500 A

Dimensions (mm) - Size 000



Dimensions (mm) - Size 230

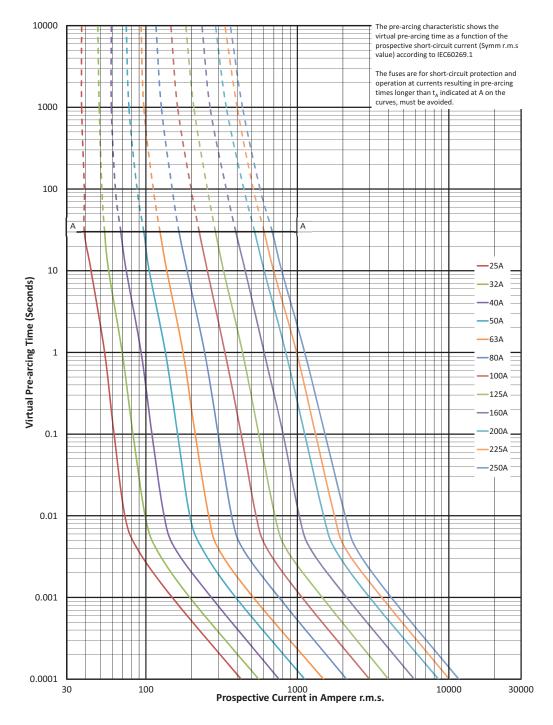




Data sheets: 170K6680 (Size 000), 170K6682 (Size 230)

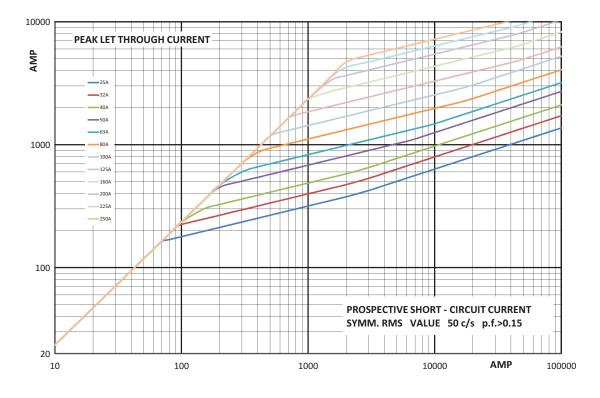
170M - Sizes 000 and 230, IGBT fuse links, 1000 V d.c. (IEC and UL), 25 A to 500 A

Time-current curve - Size 000, 25 A to 250 A



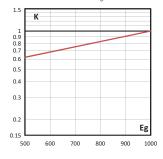
170M - Sizes 000 and 230, IGBT fuse links, 1000 V d.c. (IEC and UL), 25 A to 500 A

Cut-off curve - Size 000, 25 A to 250 A



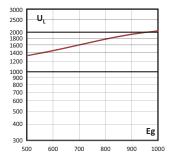
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



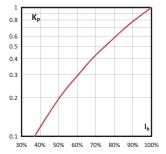
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



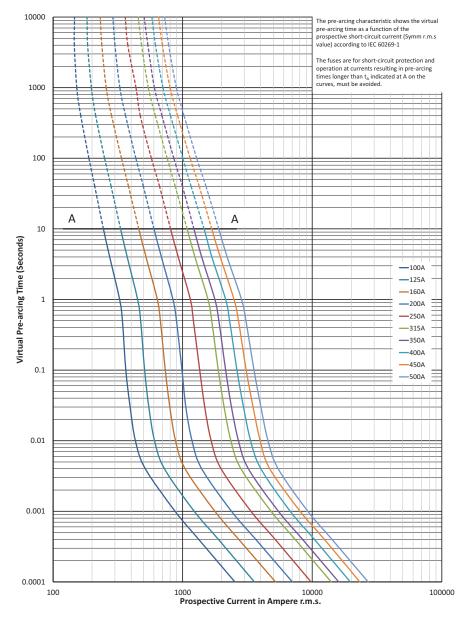
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



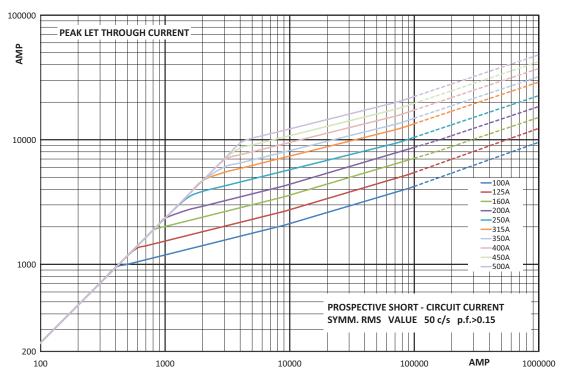
170M - Sizes 000 and 230, IGBT fuse links, 1000 V d.c. (IEC and UL), 25 A to 500 A

Time-current curve - Size 230, 100 A to 500 A



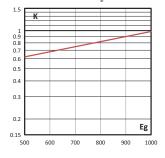
170M - Sizes 000 and 230, IGBT fuse links, 1000 V d.c. (IEC and UL), 25 A to 500 A

Cut-off curve - Size 230, 100 A to 500 A



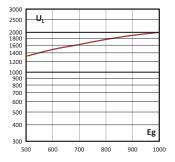
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



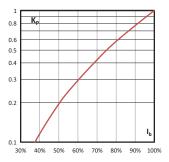
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Sizes 1*, 3 and 23, Square body fuse links, 750 V d.c. (IEC), 50 A to 1600 A

Specifications

Description

Traction flush end square body high speed fuse links for superior protection of DC third rail applications up to 750 V d.c.

Technical data

- Rated voltage: 750 V d.c. (IEC)
- Rated current: 50 A to 1600 A
- · Breaking capacity: see details in table below
- Operating class:
 - aR size 1*
 - gR: size 1* (at 900 V d.c.), 3 and 23

Standards / Agency information

IEC 60269

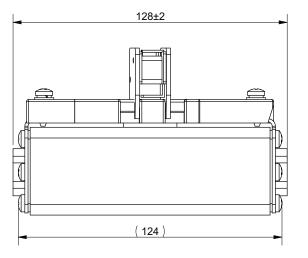


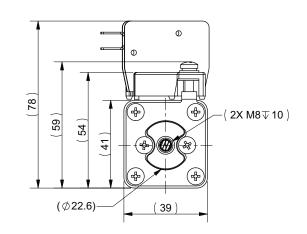
Catalogue numbers

| | | | | | I²t (A² Sec) | | Watts loss (W) | | |
|-----------------------------|--------------|----------------------|-------------------------|------------------------------------|--------------|---------------------------|--------------------|----------|----------------------|
| Fuse link type body size | | Rated voltage | Rated current (Amps) | Breaking capacity | Pre-arcing | Clearing at 750 V d.c. | 0.8 l _n | In | Catalogue numbers |
| | | | 50 | | 390 | 1300 | 15 | 27 | 170M2000 |
| | | 63 | 80 kA at 750 V d.c. | 610 | 2050 | 18 | 35 | 170M2001 | |
| Fluch and | Flush end 1* | 750 V d.c. / | 80 | - L/R 65 ms | 670 | 2250 | 19 | 37 | 170M2002 |
| Flush enu | | 900 V d.c. (IEC) | 100 | 80 kA at 900 V d.c. | 2450 | 8150 | 21 | 40 | 170M2003 |
| | | 125 | - L/R 45ms | 2950 | 9800 | 24 | 47 | 170M2004 | |
| | | 160 | - | 5500 | 18,250 | 29 | 56 | 170M2005 | |
| | | 450 | | 65,700 | 272,300 | 46 | 87 | 170M2010 | |
| | | 750 V d.c. (IEC) | 500 | 100 kA at 700 V d.c. L/R 100 ms | 83,200 | 344,800 | 52 | 98 | 170M2011 |
| | | | 550 | | 136,700 | 566,500 | 67 | 126 | 170M2012 |
| Flush end | 3 | | 630 | | 173,500 | 719,000 | 75 | 142 | 170M2013 |
| | | | 700 | | 268,000 | 1,110,500 | 78 | 156 | 170M2014 |
| | | | 750 | | 307,600 | 1,275,000 | 83 | 167 | 170M2015 |
| | | | 800 | - | 349,900 | 1,450,000 | 89 | 178 | 170M2016 |
| | | | 1000 | | 476,300 | 1,973,700 | 112 | 187 | 170M2017 |
| | | | 1250 | | 694,000 | 2,875,800 | 134 | 224 | 170M2018 |
| Parallel | 23 | 800 V d.c. (IEC/ UL) | 1400 | 100 kA at 800 V d.c., L/R 40 ms | 1,071,600 | 4,440,500 | 152 | 254 | 170M2019 |
| | | | 1500 | Lyff fo mo | 1,230,200 | 5,097,700 | 165 | 275 | 170M2020 |
| | | | 1600 | - | 1,399,700 | 5,800,100 | 180 | 300 | 170M2021 |

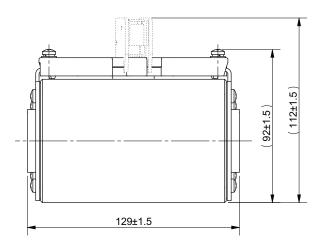
170M - Sizes 1*, 3 and 23, Square body fuse links, 750 V d.c. (IEC), 50 A to 1600 A

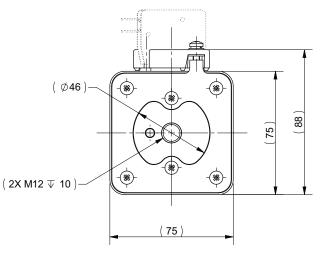
Dimensions (mm) - Size 1*, 170M2000 to 170M2005, Flush end

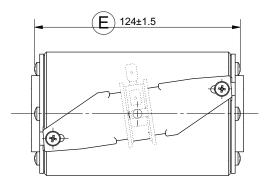




Dimensions (mm) - Size 3, 170M2010 to 170M2016, Flush end



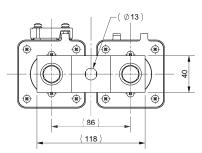


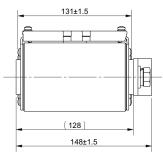


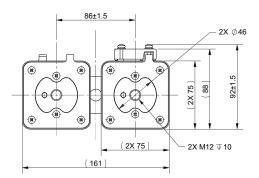
Data sheets: 720140, size 1* 5785524, 3 5785521, 23 5785525

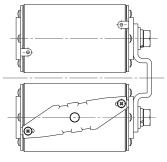
170M - Sizes 1*, 3 and 23, Square body fuse links, 750 V d.c. (IEC), 50 A to 1600 A

Dimensions (mm) - Size 23, 170M2017 to 170M2021, Parallel

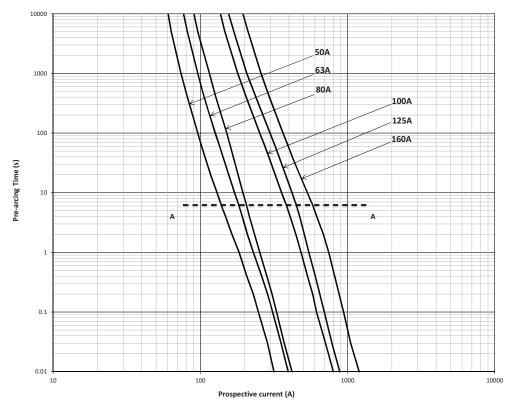






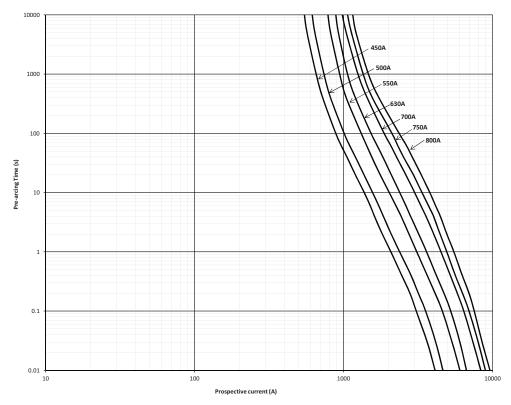


Time-current curve - 170M2000 to 170M2005, 50 A to 160 A

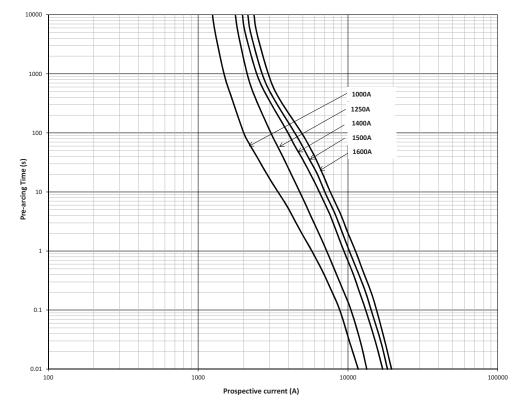


170M - Sizes 1*, 3 and 23, Square body fuse links, 750 V d.c. (IEC), 50 A to 1600 A

Time-current curve - 170M2010 to 170M2016, 450 A to 800 A



Time-current curve - 170M2017 to 170M2021, 1000 A to 1600 A



Data sheet: 720140

276

170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Specifications

Description

Traction flush end square body high speed fuse links for superior protection of DC third rail applications up to 750 V d.c..

Technical data

- Rated voltage: 750 V d.c. (IEC)
- Rated current: 63 A to 500 A
- Breaking capacity: see details below
- Operating class: gR

Standards / Agency information

Consult Eaton bulehighspeedtechnical@eaton.com

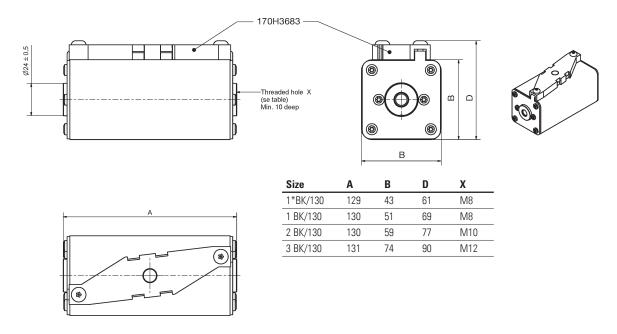


Catalogue numbers

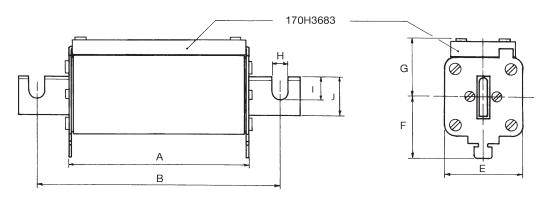
| Fuse link | | Breaking | Rated current | I²t (A²s) | — Watts loss | Catalogue numbers | | Catalogue numbers | - Fuse link |
|-----------|--------------------|----------------|---------------|------------|--------------|----------------------|----------------|----------------------|-------------|
| body size | Rated voltage | capacity | (Amps) | Pre-arcing | (W) | -BK flush end | Fuse link type | -EK knife blade | |
| | | | 63 | 1100 | 10 | 170E3577 | | 170E3583 | |
| | | | 80 | 1750 | 13 | 170E3578 | _ | 170E3584 | - |
| 1* | 750 V d.c. (IEC) | 80 kA at 43ms | 100 | 3000 | 16 | 170E3579 | _ | 170E3585 | EK/155 |
| | | | 125 | 4500 | 21 | 170E3580 | | 170E3586 | |
| | | | 160 | 7700 | 26 | 170E3581 | | 170E3587 | |
| 1 | 750 V d.c. (IEC) | EQ kA at 1Ema | 200 | 11,000 | 37 | 170E5417 | BK/130 | 170E5420 | - EK/165 |
| I | 750 V U.C. (IEC) | 50 kA at 15ms | 250 | 18,000 | 46 | 170E5418 | | 170E5421 | - EK/105 |
| | | | 250 | 17,000 | 47 | 170E8335 | _ | 170E8345 | |
| 2 | 2 750 V d.c. (IEC) | 100 kA at 15ms | 315 | 28,000 | 57 | 170E8336 | | 170E8346 | EK/170 |
| | | 400 | 55,000 | 73 | 170E8337 | - | 170E8347 | - | |
| 3 | 750 V d.c. (IEC) | 50 kA at 15 ms | 500 | 75,500 | 93 | 170E9681 | _ | 170E9685 | EK/170 |

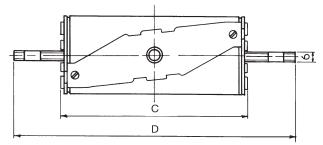
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Dimensions (mm) - BK/130



Dimensions (mm) - EK/



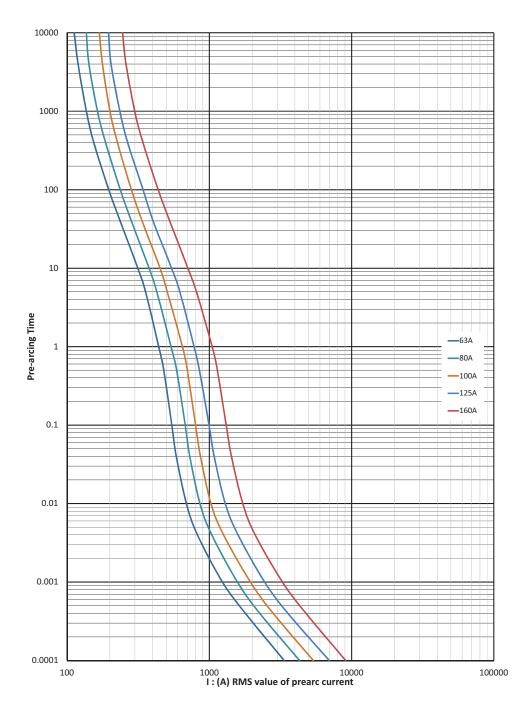


| Size | Α | В | C | D | Е | F | G | Н | I | J |
|----------|-----|-----|-----|-----|----|----|----|----|----|----|
| 1*EK/155 | 124 | 156 | 129 | 180 | 43 | 36 | 41 | 9 | 9 | 18 |
| 1 EK/165 | 124 | 166 | 129 | 191 | 51 | 37 | 41 | 11 | 14 | 25 |
| 2 EK/170 | 124 | 170 | 129 | 205 | 59 | 42 | 48 | 13 | 21 | 30 |
| 3 EK/170 | 125 | 170 | 130 | 206 | 74 | 51 | 56 | 13 | 20 | 36 |

Data sheets: 170K3620 (size 1*), 170k3622 (size 1), 170K3624 (size 2), 170K3626-A (size 3)

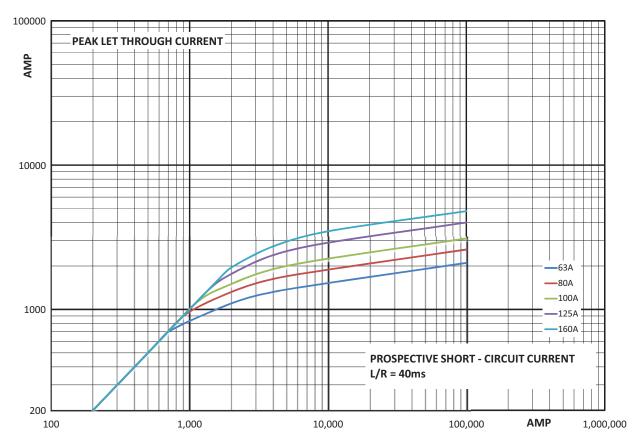
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Time-current curve - Size 1*, 63 A to 160 A



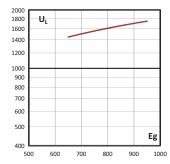
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Cut-off curve - Size 1*, 63 A to 160 A



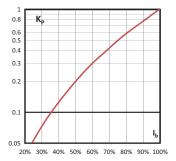
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

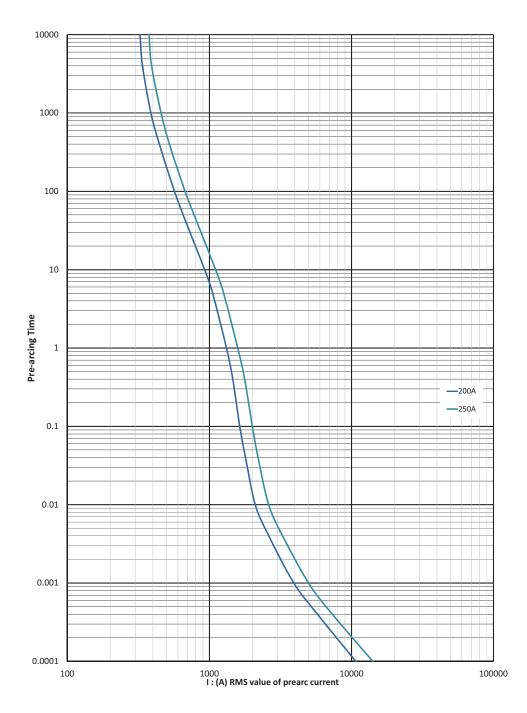
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



Data sheets: 170K3620 (size 1*), 170k3622 (size 1), 170K3624 (size 2), 170K3626-A (size 3)

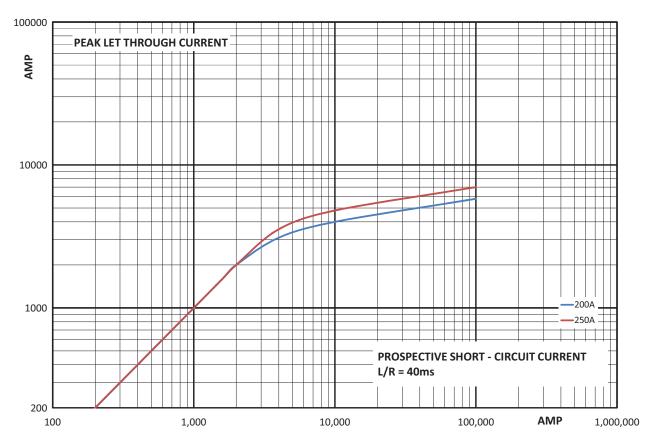
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Time-current curve - Size 1, 200 A and 250 A



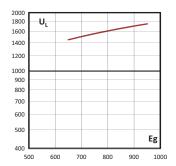
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Cut-off curve - Size 1, 200 A and 250 A



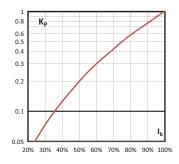
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



Watts losses

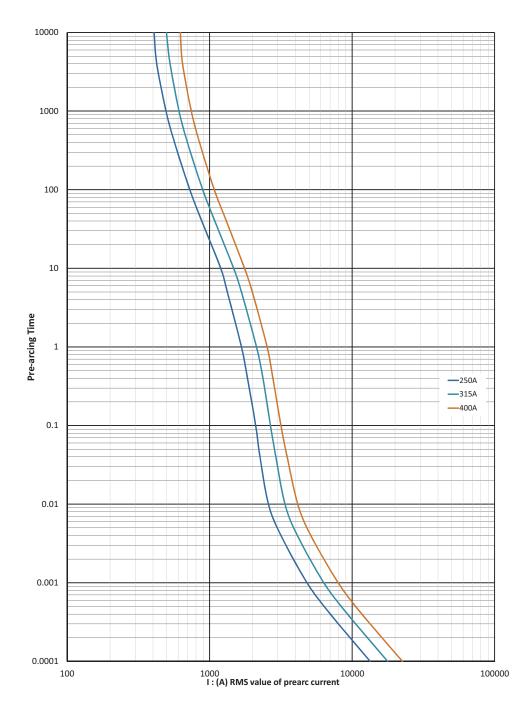
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 170K3620 (size 1*), 170k3622 (size 1), 170K3624 (size 2), 170K3626-A (size 3)

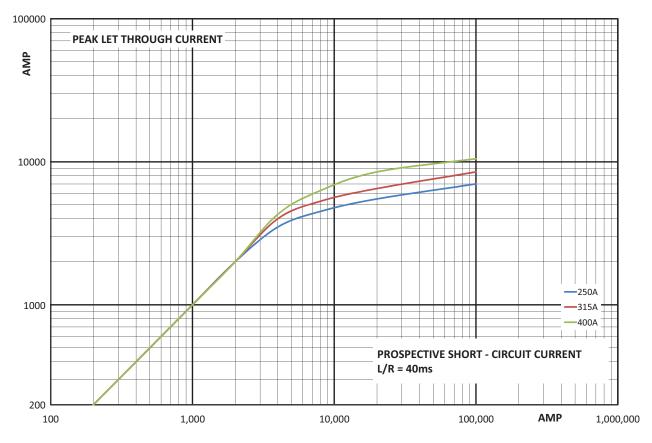
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Time-current curve - Size 2, 250 A to 400 A



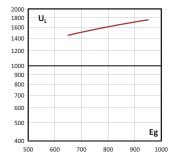
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Cut-off curve - Size 2, 250 A to 400 A



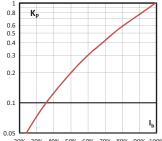
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.

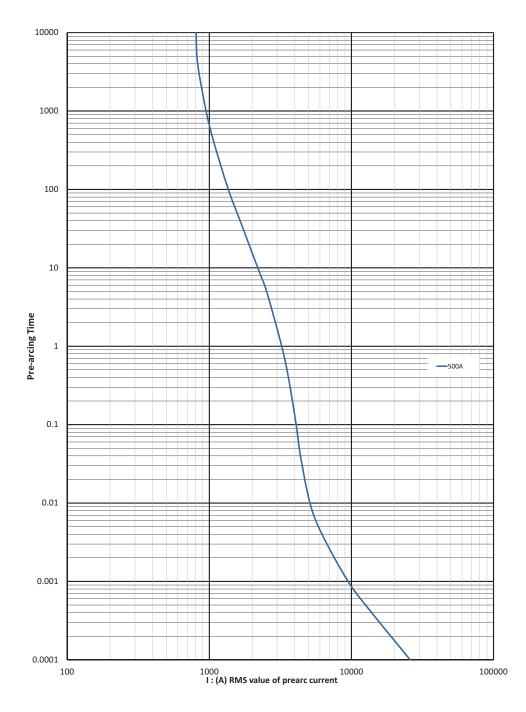


20% 30% 40% 50% 60% 70% 80% 90% 100%

Data sheets: 170K3620 (size 1*), 170k3622 (size 1), 170K3624 (size 2), 170K3626-A (size 3)

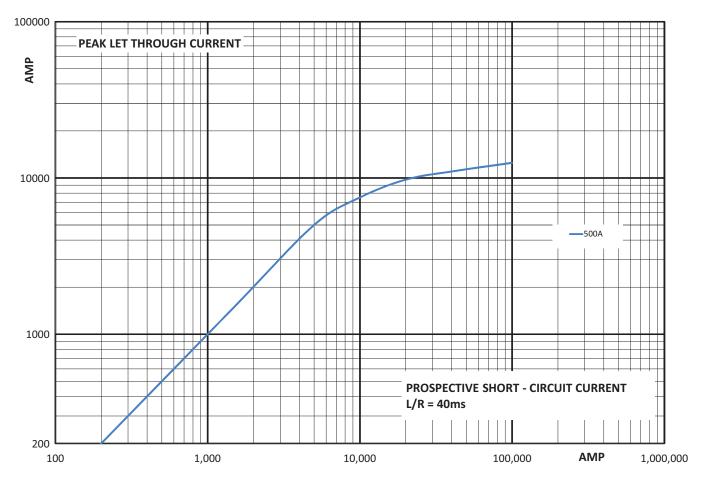
170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

Time-current curve - Size 3, 500 A



170E - Sizes 1*, 1, 2 and 3, Square body fuse links, 750 V d.c. (IEC), 63 A to 500 A

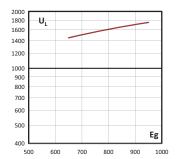
Cut-off curve - Size 2, 500 A



Arc voltage

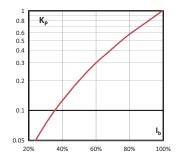
286

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_{g} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



Data sheets: 170K3620 (size 1*), 170k3622 (size 1), 170K3624 (size 2), 170K3626-A (size 3)

170M7217 - Size 4, Square body fuse links, 1250 V a.c. / 850 V d.c. (IEC), 1400 A

Specifications

Description

Traction flush end square body high speed fuse link suitable for use in third rail collector systems to protect high speed DC breakers in low time constant, high fault conditions. Suitable for 1250 V a.c. / 850 V d.c. systems.

Technical data

- Rated voltage: 1250 V a.c. / 850 V d.c. (IEC)
- Rated current: 1400 A
- Tested breaking capacity:
 - 100 kA at 1250 V a.c.
 - 80 kA at 850 V d.c., L/R 8ms
- Operating class: aR

Standards / Agency information

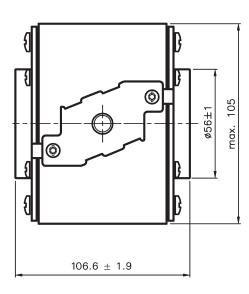
Consult Eaton bulehighspeedtechnical@eaton.com

Catalogue numbers

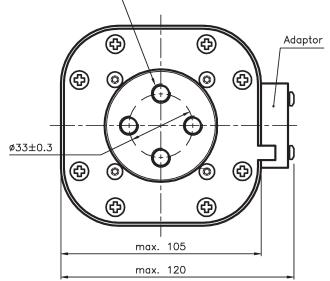


| | | | I²t (A² Sec) | | _ | |
|------------------------|------------------------------|-------------------------|--------------|----------------------------|-------------------|----------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1250 V a.c. | Watts loss (W) | Catalogue numbers |
| 4 | 850 V d.c./ 1250 V a.c. (IEC | 1400 | 800,000 | 5,000,000 | 195 | 170M7217 |
| | 1000 V d.c. 180 kA IR (UL) | | | | | |
| | 1200 V d.c. 85 kA IR (UL)) | | | | | |

Dimensions (mm)

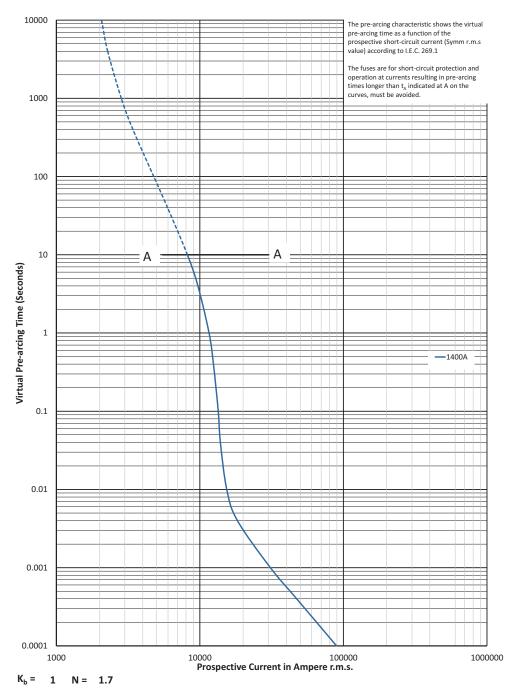


Thread controlled with 6H gauge. Hole min. 11 deep.



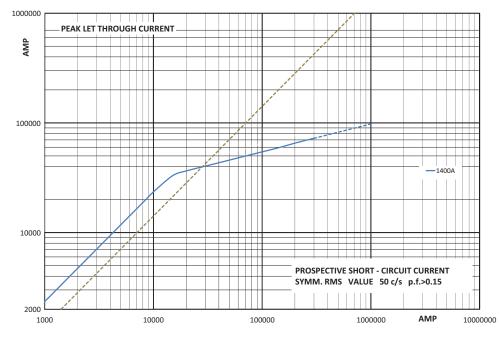
170M7217 - Size 4, Square body fuse links, 1250 V a.c. / 850 V d.c. (IEC), 1400 A

Time-current curve - 1400 A



Data sheet: 170K6640

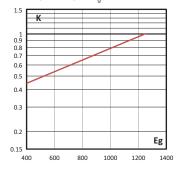
170M7217 - Size 4, Square body fuse links, 1250 V a.c. / 850 V d.c. (IEC), 1400 A



Cut-off curve - 1400 A

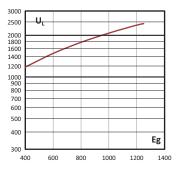
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



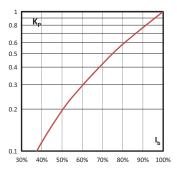
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



170M - Size 1*, Square body fuse links, 1200 V d.c. (IEC), 20 A to 215A

Specifications

Description

Traction bolted tags square body high speed fuse links for superior protection of DC third rail applications up to 1200 V d.c.

Technical data

- Rated voltage: 1200 V d.c. (IEC)
- Rated current: 20 A to 215 A
- Tested breaking capacity: 100 kA at 1200 V d.c., L/R 15ms
- Operating class: aR

Standards / Agency information

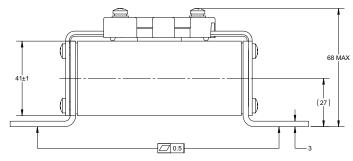
IEC 60269

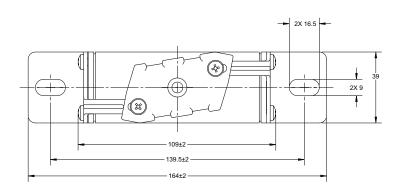
Catalogue numbers



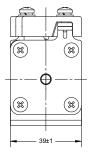
| | | | | I²t (A² Sec) | | Watts los | s (W) | |
|-----------------|------------------------|-------------------|-------------------------|--------------|----------------------------|--------------------|-------|----------------------|
| Fuse link type | Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1200 V d.c. | 0.8 l _n | In | Catalogue numbers |
| | | | 20 | 82 | 249 | 1 | 2 | 170M2100 |
| | | | 25 | 173 | 526 | 4 | 8 | 170M2101 |
| | | | 32 | 327 | 994 | 5 | 9 | 170M2102 |
| | | | 40 | 550 | 1675 | 1 | 9 | 170M2103 |
| | | | 50 | 950 | 2890 | 7 | 13 | 170M2104 |
| Single elet tog | 1* | 1200 V d.c. (IEC) | 63 | 1310 | 3990 | 5 | 9 | 170M2105 |
| Single slot tag | I | 1200 V U.C. (IEC) | 80 | 1970 | 6000 | 13 | 23 | 170M2106 |
| | | | 100 | 3800 | 11,600 | 14 | 26 | 170M2107 |
| | | | 125 | 8550 | 26,025 | 13 | 24 | 170M2108 |
| | | | 160 | 8770 | 26,700 | 24 | 44 | 170M2109 |
| | | | 200 | 15,200 | 46,300 | 29 | 52 | 170M2110 |
| | | | 215 | 16,430 | 50,000 | 32 | 58 | 170M2111 |

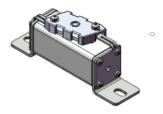
Dimensions (mm)

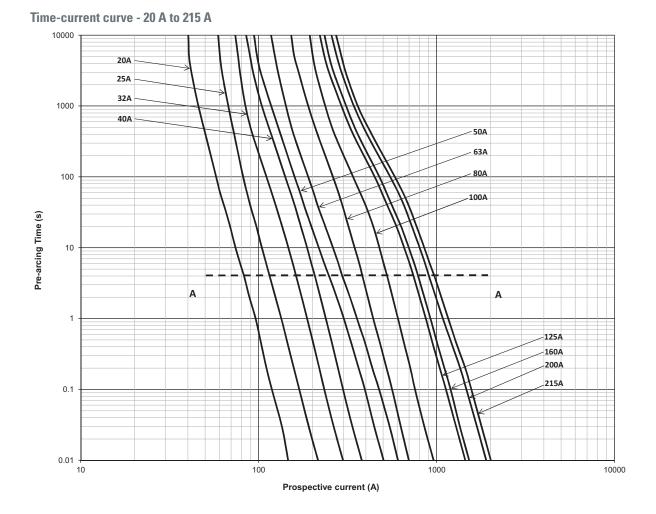




Data sheet: 5785523







170M - Size 1*, Square body fuse links, 1200 V d.c. (IEC), 20 A to 215A

170F - Size 2, Square body fuse links, 1200 V d.c. (IEC), 160 A to 420 A

Specifications

Description

Traction bolted tags square body high speed fuse link for superior protection in DC traction applications up to 1200 V d.c.

Technical data

- Rated voltage:
 - 1200 V d.c. (IEC)
 - 1050 V d.c. (UL)
- Rated current: 160 A to 420 A
- Breaking capacity:
 - 100 kA at 1000 V d.c., L/R = 45ms
 - 100 kA at 1200 V d.c., L/R = 15ms
- Operating class: aR

Standards / Agency information

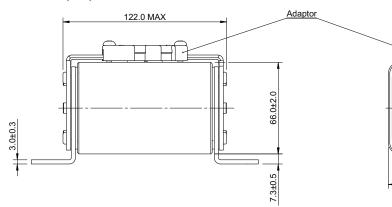
Contact Eaton bulehighspeedtechnical@eaton.com

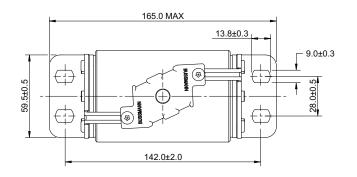
Catalogue numbers

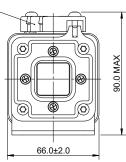


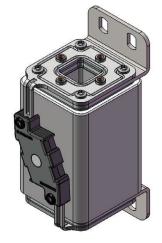
| | | | | l²t (A² Sec) | | | |
|----------------|------------------------|-------------------|-------------------------|-------------------------|-------------------------|-------------------|----------------------|
| Fuse link type | Fuse link body size | Rated voltage | Rated current (Amps) | 1000 V d.c. L/R 15ms | 1000 V d.c. L/R 45ms | Watts loss (W) | Catalogue numbers |
| | | | 160 | 12,000 | 20,000 | 75 | 170F8230 |
| | | | 200 | 20,000 | 35,000 | 85 | 170F8231 |
| Double | 0 | 1200 V d.c. (IEC) | 250 | 43,000 | 75,000 | 94 | 170F8232 |
| slotted tag | 2 | 1050 V d.c. (UL) | 315 | 87,000 | 150,000 | 104 | 170F8233 |
| | | | 400 | 180,000 | 310,000 | 120 | 170F8234 |
| | | | 420 | 215,000 | 375,000 | 122 | 170F8235 |

Dimensions (mm)





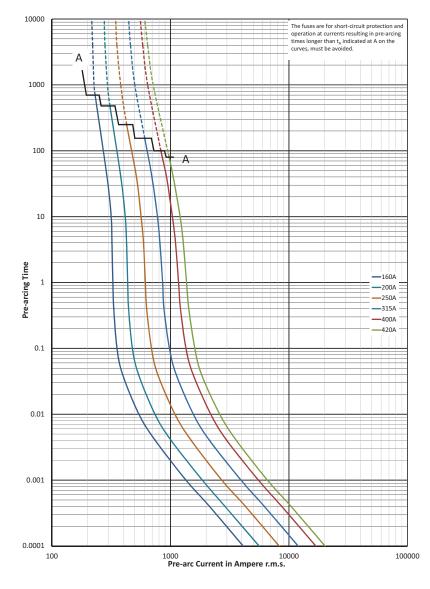




Data sheet: 170K5520

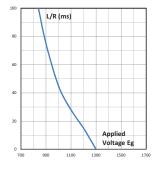
170F - Size 2, Square body fuse links, 1200 V d.c. (IEC), 160 A to 420 A

Time-current curve - 160 A to 420 A



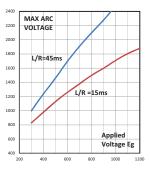
Total clearing l²t

The total clearing I2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing l²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



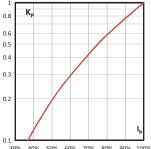
Arc voltage

This curve gives the peak arc voltage, U₁, which may appear across the fuse during its operation as a function of the applied working voltage, $\mathrm{E}_{_{\mathrm{cl}}}$ (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{_{\rm P}}$, is given as a function of the RMS load current, I, in percent of the rated current.



40% 50% 60% 70% 80% 90% 100% 30%

170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 80 A

Specifications

Description

Traction bolted tags square body high speed fuse link which provides superior protection in DC traction applications up to 2000 V d.c.

Technical data

- Rated voltage: 2000 V d.c. (IEC)
- Rated current: 10 A to 80 A
- Tested breaking capacity: 40 kA at 2000 V d.c., L/R 30ms
- Operating class: gR

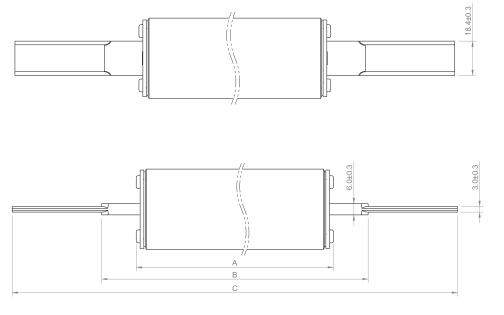
Standards / Agency information

Contact Eaton bulehighspeedtechnical@eaton.com

Catalogue numbers

| Fuse link type | Fuse link body size | Rated voltage | Rated current (Amps) | Watts loss (W) | Catalogue numbers |
|-------------------|------------------------|------------------|-------------------------|-------------------|----------------------|
| | | | 10 | 7 | 170E3977 |
| | | | 12 | 8 | 170E3982 |
| | | | 16 | 11 | 170E3971 |
| | | | 20 | 13 | 170E3906 |
| | 1* | 2000 V d.c.(IEC) | 25 | 17 | 170E3907 |
| Knife blade style | | | 32 | 22 | 170E3908 |
| | | | 40 | 27 | 170E3909 |
| | | | 50 | 34 | 170E3910 |
| | | | 63 | 43 | 170E3911 |
| | | | 80 | 50 | 170E3912 |

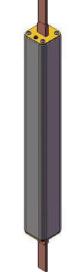
Dimensions (mm)



 A
 B
 C

 215 ± 2.5
 250.5 ± 3.2
 245.5 ± 3.5

Data sheet: 170K4538



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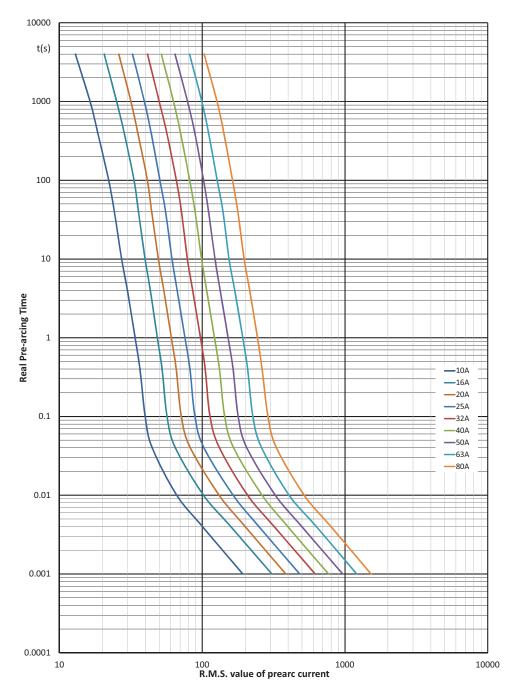
 \bigcirc

43.0±1.5

43.0±1.5

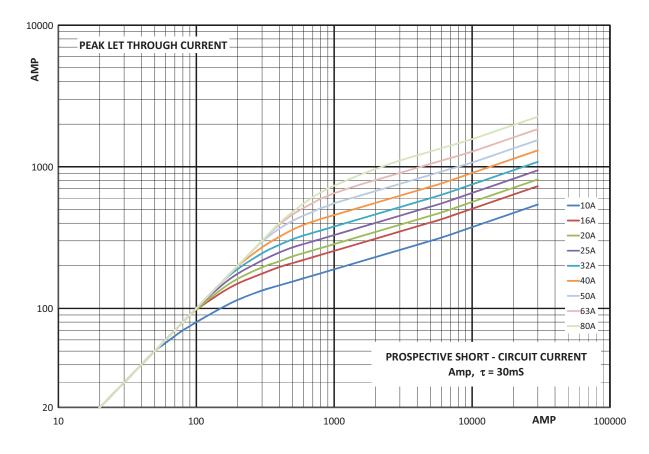
170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 80 A

Time-current curve - 10 A to 80 A



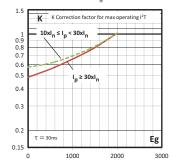
170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 80 A

Cut-off curve - 10 A to 80 A



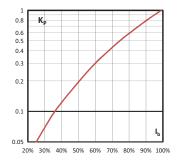
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



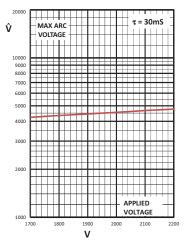
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheet: 170K4538

170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 125 A

Specifications

Description

Traction bolted tags square body high speed fuse link which provides superior protection in DC traction applications up to 2000 V d.c..

Technical data

- Rated voltage: 2000 V d.c. (IEC)
- Rated current: 10 A to 125 A
- Tested breaking capacity: 40 kA at 2000 V d.c., L/R 20ms
- Operating class: aR

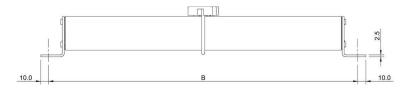
Standards / Agency information

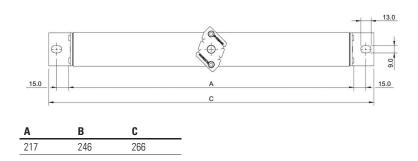
Contact Eaton bulehighspeedtechnical@eaton.com

Catalogue numbers

| Fuse link type | Fuse link body size | Rated voltage | Rated current (Amps) | Watts loss (W) | Catalogue numbers |
|----------------|------------------------|-------------------|-------------------------|-------------------|----------------------|
| | | | 20 | 13 | 170E3937 |
| | | | 25 | 16 | 170E3938 |
| | | | 32 | 20 | 170E3939 |
| | | | 40 | 25 | 170E3940 |
| | | | 50 | 32 | 170E3941 |
| | | | 63 | 40 | 170E3942 |
| | | | 80 | 51 | 170E3943 |
| | | | 100 | 64 | 170E3944 |
| Bolted | 1* | 2000 V d.c. (IEC) | 125 | 80 | 170E3945 |
| blade Style | | | 10 | 7 | 170E3976 |
| | | | 16 | 11 | 170E3970 |
| | | | 20 | 13 | 170E3950 |
| | | | 25 | 17 | 170E3951 |
| | | | 32 | 22 | 170E3952 |
| | | | 40 | 27 | 170E3953 |
| | | | 50 | 34 | 170E3954 |
| | | | 63 | 43 | 170E3955 |
| | | | 80 | 50 | 170E3956 |

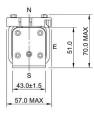
Dimensions (mm)





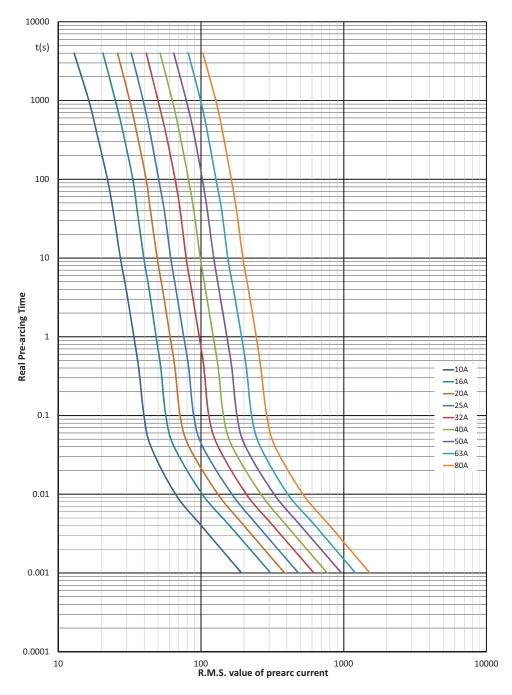
Data sheets: 170K4538 (10 A to 80 A), 170K4900 (20 A to 125 A)





170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 125 A

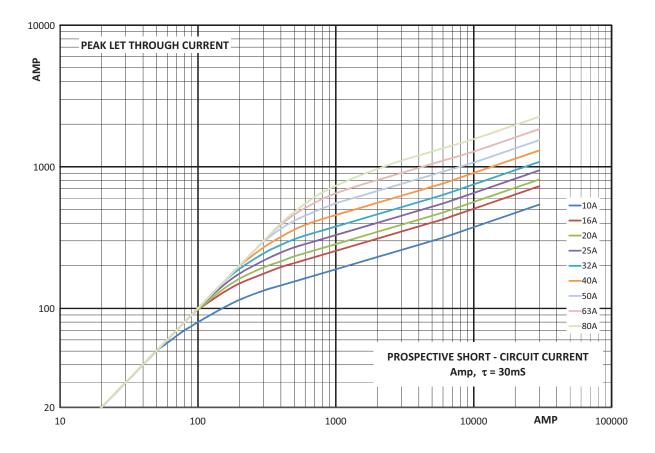
Time-current curve - 10 A to 80 A



Data sheets: 170K4538 (10 A to 80 A), 170K4900 (20 A to 125 A)

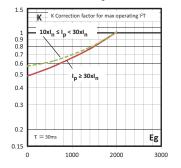
170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 125 A

Cut-off curve - 10 A to 80 A



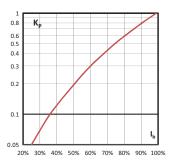
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



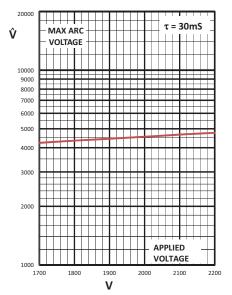
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



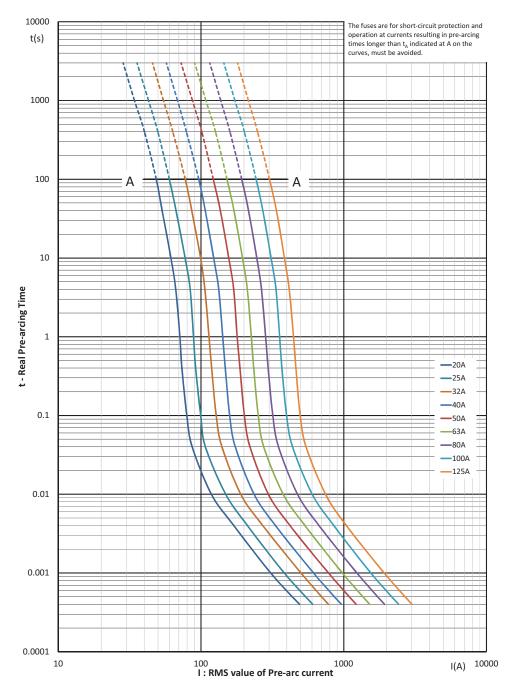
Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 125 A

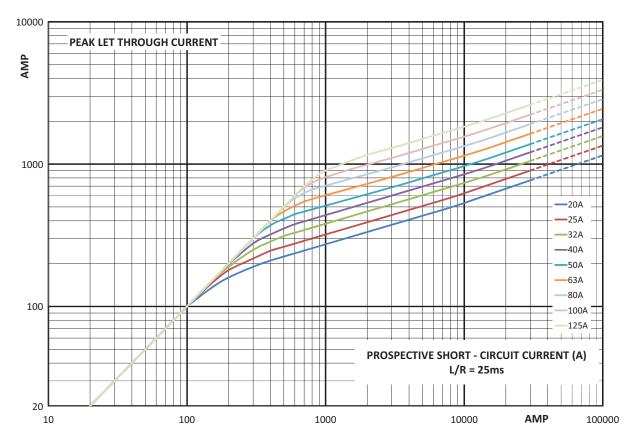
Time-current curve - 20 A to 125 A



Data sheets: 170K4538 (10 A to 80 A), 170K4900 (20 A to 125 A)

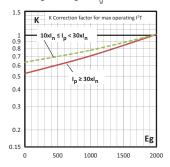
170E - Size 1*, Square body fuse links, 2000 V d.c. (IEC), 10 A to 125 A

Cut-off curve - 20 A to 125 A



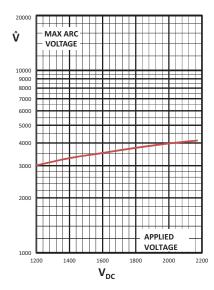
Total clearing l²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{a'}$ (RMS).



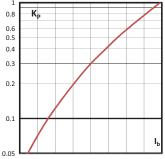
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



20% 30% 40% 50% 60% 70% 80% 90% 100%

170M - Square body fuse links, 2000 V d.c. (IEC), 20 A to 600 A

Specifications

Description

Traction bolted tags square body high speed fuse links which provides superior protection for DC traction third rail applications up to 2000 V d.c.

Technical data

- Rated voltage: 2000 V d.c. (IEC)
- Rated current:
 - 20 A to 215 A Single slot tag
 - 160 A to 400 A Double slot tag
 - 500 A to 600 A Parallel double slot tag
- Breaking capacity:
 - 100 kA at 2000 V d.c., L/R <15ms
 - 100 kA at 1500 V d.c., L/R <45ms
- Operating class: aR

Standards / Agency information

Tested in line with IEC 60269

Catalogue numbers

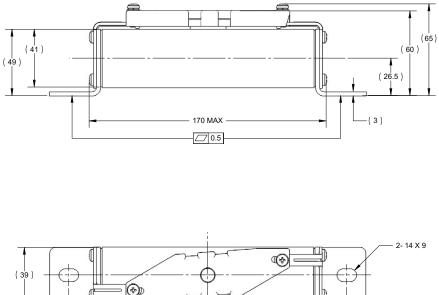


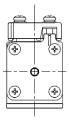
| | | | I²t (A² Sec) | | Watts Io | ss (W) | |
|--------------------|-------------------|-------------------------|--------------|-------------------------|--------------------|----------------|----------------------|
| Fuse link type | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 2000 V d.c. | 0.8 I _n | I _n | Catalogue numbers |
| | | 20 | 85 | 240 | 9 | 12 | 170M2046 |
| | | 25 | 130 | 390 | 9 | 16 | 170M2047 |
| | | 32 | 220 | 645 | 11 | 18 | 170M2048 |
| | | 40 | 390 | 1140 | 12 | 20 | 170M2049 |
| | | 50 | 610 | 1780 | 17 | 33 | 170M2050 |
| Single slot | 2000 V d.c. (IEC) | 63 | 1030 | 3000 | 20 | 39 | 170M2051 |
| tag | 1500 V d.c. (UL) | 80 | 1555 | 4550 | 28 | 53 | 170M2052 |
| | | 100 | 2680 | 7840 | 33 | 63 | 170M2053 |
| | | 125 | 4110 | 12,020 | 42 | 79 | 170M2054 |
| | | 160 | 6620 | 19,360 | 45 | 87 | 170M2055 |
| | | 200 | 10,720 | 31,360 | 50 | 95 | 170M2056 |
| | | 215 | 21,870 | 64,000 | 51 | 97 | 170M2057 |
| | | 160 | 7900 | 42,000 | 68 | 91 | 170M2039 |
| | | 200 | 12,300 | 66,000 | 85 | 113 | 170M2040 |
| Double slot tag | 2000 V d.c. (IEC) | 250 | 21,900 | 120,000 | 100 | 133 | 170M2041 |
| Sior tag | | 315 | 38,900 | 210,000 | 119 | 158 | 170M2042 |
| | | 400 | 65,700 | 350,000 | 148 | 176 | 170M2043 |
| Parallel double | 2000 \/ d a //EC\ | 500 | 105,851 | 163,010 | 109 | 230 | 170M2044 |
| slot tag | 2000 V d.c. (IEC) | 600 | 188,179 | 289,796 | 153 | 305 | 170M2045 |

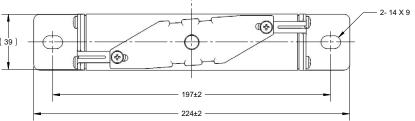
Data sheets: 720142, 5785522 (Single slot, 5785519 Double slot tag, 5785526 Parallel double slot tag)

170M - Square body fuse links, 2000 V d.c. (IEC), 20 A to 600 A

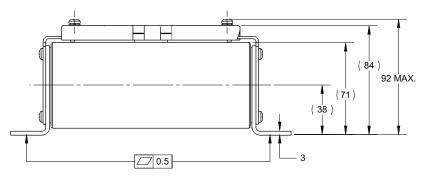
Dimensions (mm) - 170M2046 to 170M2057, Single slot tag

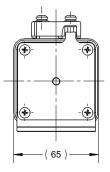


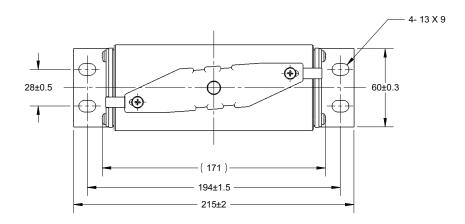




Dimensions (mm) - 170M2039 to 170M2043, Double slot tag



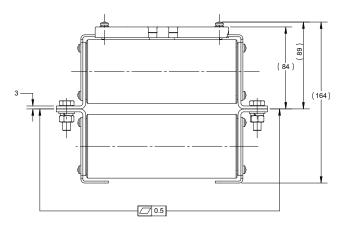


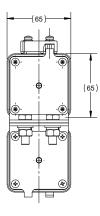


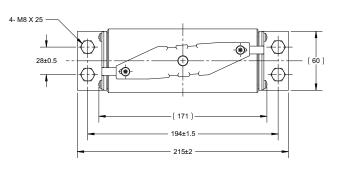
Data sheets: 720142, 5785522 (Single slot, 5785519 Double slot tag, 5785526 Parallel double slot tag)

170M - Square body fuse links, 2000 V d.c. (IEC), 20 A to 600 A

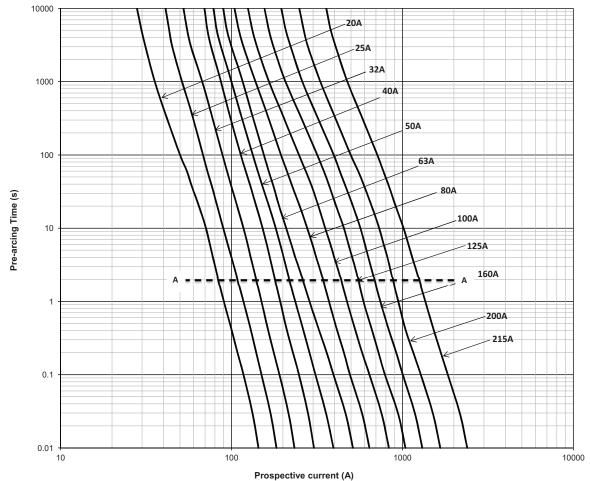
Dimensions (mm) - 170M2044 and 170M2045, Parallel, double slot tag







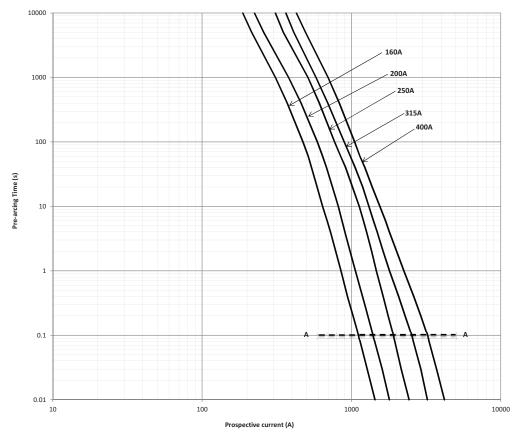
Time-current curve - 170M2046 to 170M2056, 20 A to 215 A



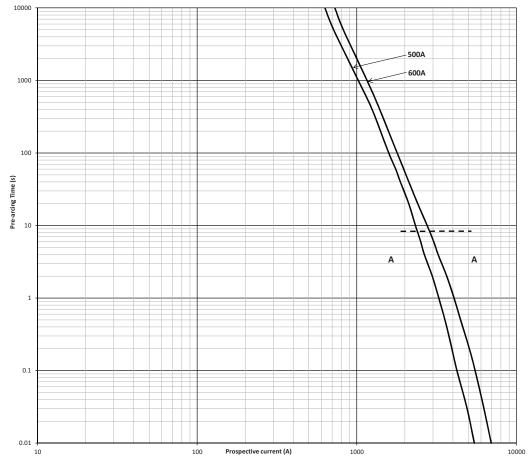
Data sheets: 720142, 5785522 (Single slot, 5785519 Double slot tag, 5785526 Parallel double slot tag)

170M - Square body fuse links, 2000 V d.c. (IEC), 20 A to 600 A

Time-current curve - 170M2039 to 170M2043, 160 A to 400 A



Time-current curve - 170M2044 to 170M2045, 500 A and 600 A



Data sheets: 720142, 5785522 (Single slot, 5785519 Double slot tag, 5785526 Parallel double slot tag)

170M - Size 3, Square body fuse links, 2400 V d.c. (IEC), 100 A to 400 A

Specifications

Description

Traction bolted tags square body high speed fuse links for superior protection of DC third rail applications up to 2400 V d.c.

Technical data

- Rated voltage: 2400 V d.c. (IEC)
- Rated current: 100 A to 400 A
- Tested breaking capacity:
- 100 kA at 2400 V d.c., L/R < 15ms
- 100 kA at 2000 V d.c., L/R < 45ms
- Operating class: aR

Standards / Agency information

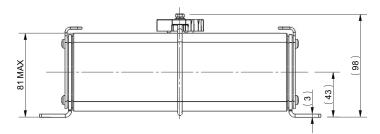
Tested in line with IEC 60269

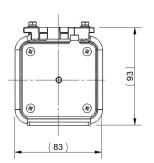
Catalogue numbers

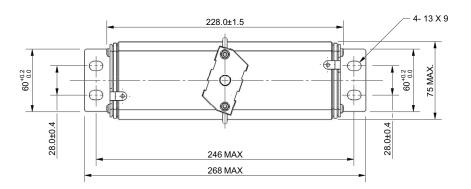


| | | | | I²t (A² Sec) | | Watts los | ss (W) | |
|-----------------|------------------------|-------------------|-------------------------|--------------|-------------------------|--------------------|--------|----------------------|
| Fuse link type | Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 2000 V d.c. | 0.8 I _n | In | Catalogue numbers |
| | | | 100 | 5468 | 15,457 | 20 | 39 | 170M2090 |
| | | | 160 | 16,427 | 46,439 | 43 | 84 | 170M2091 |
| | | | 200 | 25,667 | 72,561 | 53 | 97 | 170M2092 |
| Double slot tag | 3 | 2400 V d.c. (IEC) | 250 | 36,960 | 104,488 | 60 | 103 | 170M2093 |
| | | | 315 | 66,977 | 189,346 | 82 | 162 | 170M2094 |
| | | | 350 | 87,480 | 247,309 | 89 | 175 | 170M2095 |
| | | | 400 | 110,717 | 313,000 | 103 | 203 | 170M2096 |

Dimensions (mm)



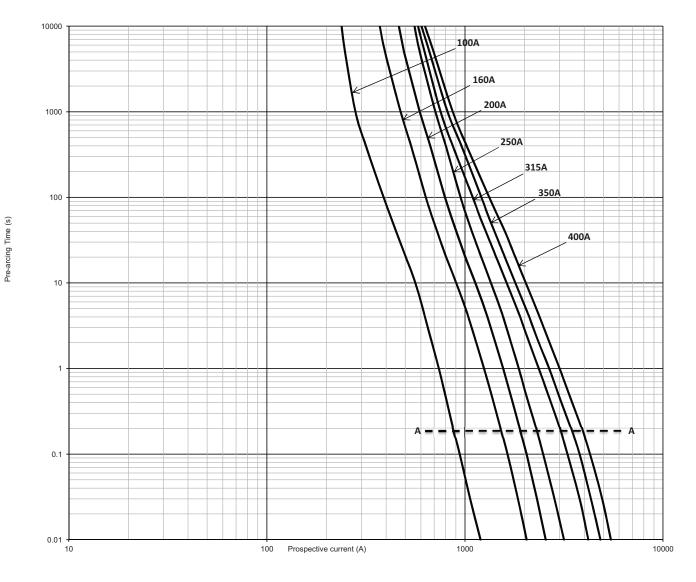




Data sheet: 720143, 5785520

170M - Size 3, Square body fuse links, 2400 V d.c. (IEC), 100 A to 400 A

Time-current curve - 100 A to 400 A



170E - Size 1*, Square body fuse links, 4000 V d.c. (IEC), 20 A to 125 A

Specifications

Description

Traction bolted tags square body high speed fuse link for superior protection in DC traction applications up to 4000 V d.c.

Technical data

- Rated voltage: 4000 V d.c. (IEC)
- Rated current: 20 A to 125 A
- Tested breaking capacity: 50 kA at 4000 V d.c., L/R 10ms
- Operating class: aR

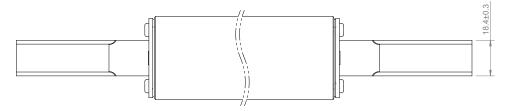
Standards / Agency information

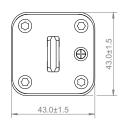
Consult Eaton bulehighspeedtechnical@eaton.com

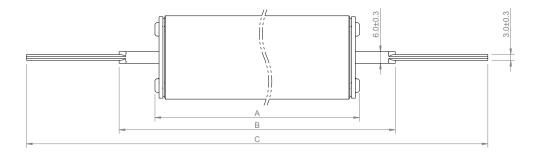
Catalogue numbers

| Fuse link body size | Rated voltage | Rated current (Amps) | Watts loss (W) | Catalogue numbers |
|------------------------|-------------------|-------------------------|-------------------|----------------------|
| | | 20 | 23 | 170E3924 |
| | | 25 | 28 | 170E3925 |
| | | 32 | 34 | 170E3926 |
| | | 40 | 45 | 170E3927 |
| 1* | 4000 V d.c. (IEC) | 50 | 57 | 170E3928 |
| | | 63 | 72 | 170E3929 |
| | | 80 | 91 | 170E3930 |
| | | 100 | 114 | 170E3931 |
| | | 125 | 143 | 170E3932 |

Dimensions (mm)





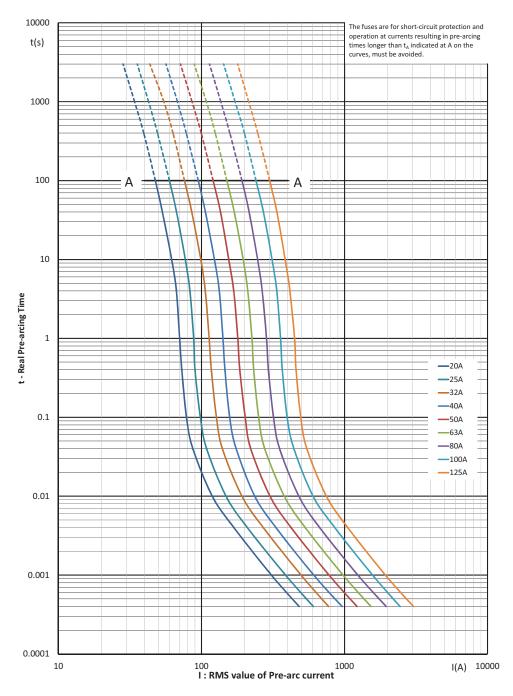


Data sheet: 170K6600



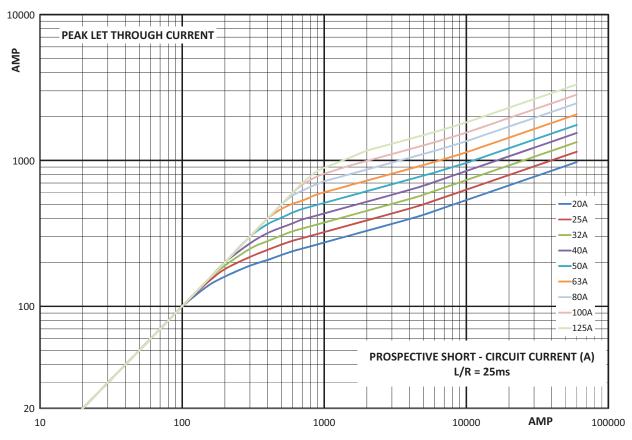
170E - Size 1*, Square body fuse links, 4000 V d.c. (IEC), 20 A to 125 A

Time-current curve - 20 A to 125 A



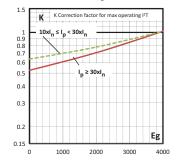
170E - Size 1*, Square body fuse links, 4000 V d.c. (IEC), 20 A to 125 A

Cut-off curve - 20 A to 125 A



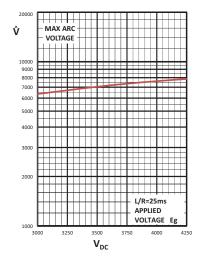
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{a} , (RMS).



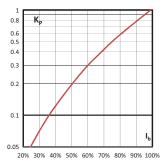
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



170E - Sizes 1*, 2 and 2//2, Square body fuse links, 4000 V d.c. (IEC), 20 A to 450 A

Specifications

Description

Traction bolted tags square body high speed fuse link for superior protection in DC traction applications up to 4000 V d.c..

Technical data

- Rated voltage: 4000 V d.c. (IEC)
- Rated current: 20 A to 500 A
- Breaking capacity: 60 kA at 4000 V d.c., L/R 25ms
- Operating class: aR

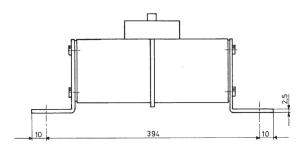
Standards / Agency information

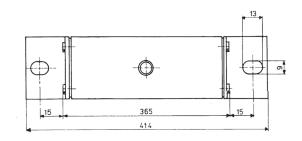
Contact Eaton bulehighspeedtechnical@eaton.com

Catalogue numbers

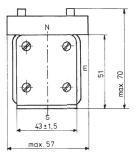
| Fuse link body size | Rated voltage | Rated current (Amps) | Watts loss (W) | Catalogue numbers |
|------------------------|-------------------|-------------------------|-------------------|----------------------|
| | | 20 | 23 | 170E3914 |
| | | 25 | 28 | 170E3915 |
| | | 32 | 34 | 170E3916 |
| | | 40 | 45 | 170E3917 |
| 1* | 4000 V d.c. (IEC) | 50 | 57 | 170E3918 |
| | | 63 | 72 | 170E3919 |
| | | 80 | 91 | 170E3984 |
| | | 100 | 114 | 170E3933 |
| | | 125 | 143 | 170E3922 |
| | | 160 | 182 | 170E8882 |
| 2 | 4000 V d.c. (IEC) | 200 | 228 | 170E8883 |
| | | 250 | 285 | 170E8884 |
| | | 315 | 360 | 170E8885 |
| | | 350 | 400 | 170E8886 |
| 2//2 | 4000 V d.c. (IEC) | 400 | 455 | 170E8887 |
| | | 450 | 515 | 170E8888 |
| | | 500 | 600 | 170E8889 |

Dimensions (mm) - Size 1*



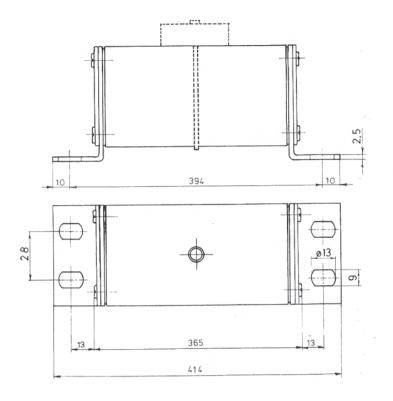


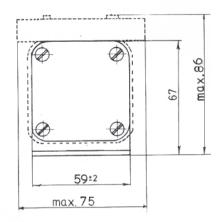




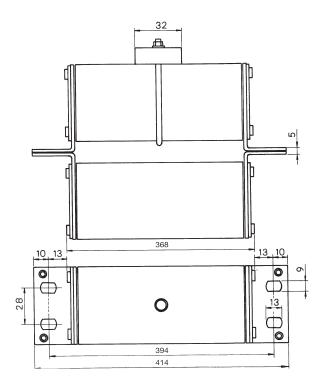
170E - Sizes 1*, 2 and 2//2, Square body fuse links, 4000 V d.c. (IEC), 20 A to 450 A

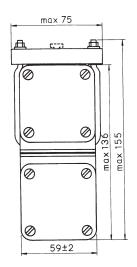
Dimensions (mm) - Size 2





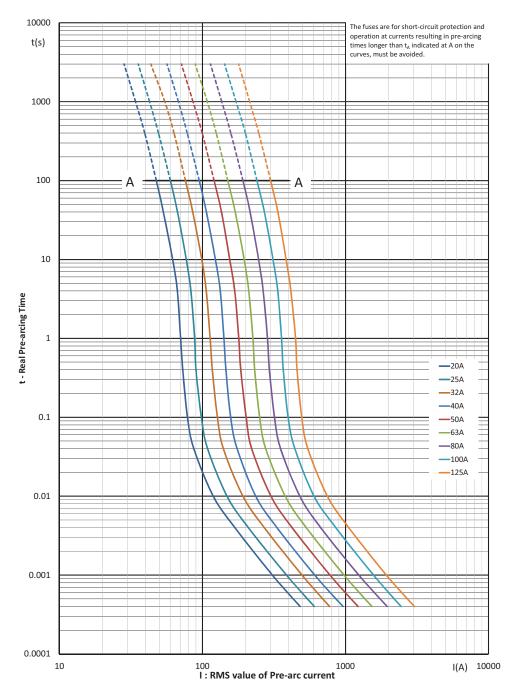
Dimensions (mm) - Size 2/2





Data sheets: 1* 170K6600, 2 and 2//2 170K6604

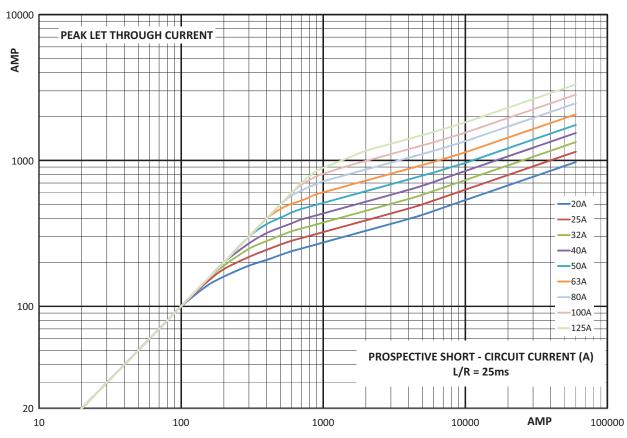
170E - Sizes 1*, 2 and 2//2, Square body fuse links, 4000 V d.c. (IEC), 20 A to 450 A



Time-current curve - Size 1*, 20 A to 125 A

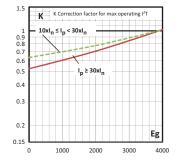
170E - Sizes 1*, 2 and 2//2, Square body fuse links, 4000 V d.c. (IEC), 20 A to 450 A

Cut-off curve - Size 1*, 20 A to 125 A



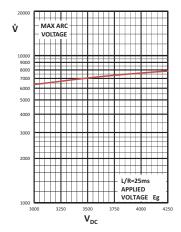
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_{ar} (RMS).



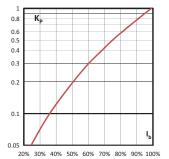
Arc voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_q , (RMS) at a power factor of 15 percent.



Watts losses

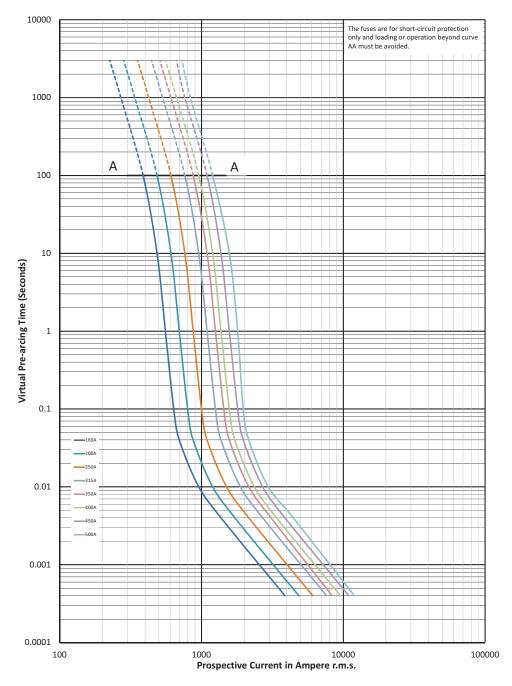
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



Data sheets: 1* 170K6600, 2 and 2//2 170K6604

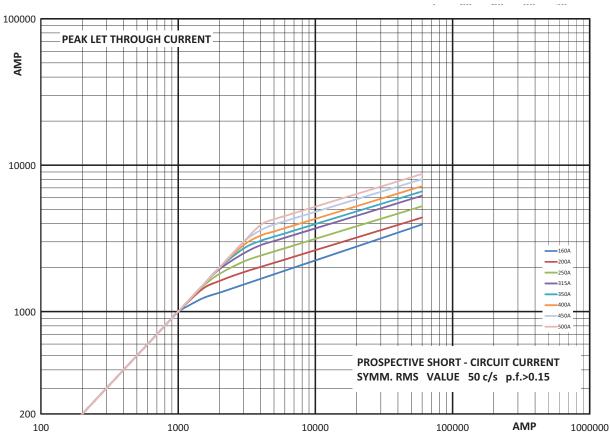
170E - Sizes 1*, 2 and 2//2, Square body fuse links, 4000 V d.c. (IEC), 20 A to 450 A

Time-current curve - Sizes 2 and 2//2, 160 A to 500 A



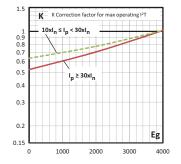
170E - Sizes 1*, 2 and 2//2, Square body fuse links, 4000 V d.c. (IEC), 20 A to 450 A

Cut-off curve - Sizes 2 and 2/2, 160 A to 500 A



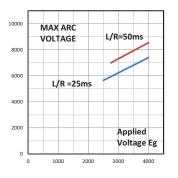
Total clearing l²t

The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, $E_{g'}$ (RMS).



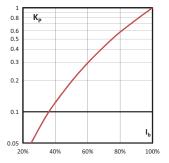
Arc voltage

This curve gives the peak arc voltage, U_{L} , which may appear across the fuse during its operation as a function of the applied working voltage, E_{q} , (RMS) at a power factor of 15 percent.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, $K_{\rm p}$, is given as a function of the RMS load current, $I_{\rm b}$, in percent of the rated current.



FWK - 20 x 127 and 25 x 146 mm, Ferrule fuse links, 750 V d.c. (IEC), 5 A to 60 A

Specifications

Description

Ferrule high speed fuse links for light rail applications in auxiliary power and distribution equipment.

Technical data

- Rated voltage: 750 V d.c. (IEC)
- Rated current:
- 5 A to 30 A (20 x 127 mm)
- 35 A to 60 A (25 x 146 mm)
- Breaking capacity: 50 kA at 750 V d.c., L/R 10-15ms
- Operating class: gG

Standards / Agency information

Tested in line with IEC 60269

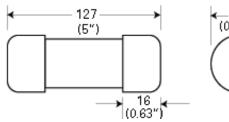
Catalogue numbers

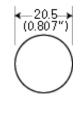


| | | I²t (A² Sec) | | | | |
|------------------|-------------------------|---|---|--|---|--|
| Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 750 V d.c. | Watts loss (W) | Catalogue numbers | |
| | 5 | 8.5 | 16 | 6.7 | FWK-5A20F | |
| | 8 | 50 | 100 | 8.8 | FWK-8A20F | |
| | 10 | 95 | 200 | 8.5 | FWK-10A20F | |
| 750 V d.c. (IEC) | 15 | 100 | 240 | 5 | FWK-15A20F | |
| | 20 | 125 | 315 | 7.8 | FWK-20A20F | |
| | 25 | 400 | 1100 | 6.5 | FWK-25A20F | |
| | 30 | 800 | 2600 | 6.5 | FWK-30A20F | |
| | 35 | 1300 | 4300 | 6 | FWK-35A25F | |
| 750.) (1. (150) | 40 | 1600 | 5300 | 6.8 | FWK-40A25F | |
| 750 V d.c. (IEC) | 50 | 3100 | 12000 | 7.3 | FWK-50A25F | |
| | 60 | 5900 | 24000 | 7.7 | FWK-60A25F | |
| | | Rated voltage (Amps) 5 8 10 15 20 25 30 35 750 V d.c. (IEC) 40 50 V d.c. (IEC) 50 | Rated voltage Rated current (Amps) Pre-arcing 5 8.5 8 50 10 95 15 100 20 125 25 400 30 800 35 1300 40 1600 50 3100 | Rated voltage Rated current (Amps) Pre-arcing Clearing at 750 V d.c. 5 8.5 16 8 50 100 10 95 200 15 100 240 20 125 315 25 400 1100 30 800 2600 35 1300 4300 40 1600 5300 50 3100 12000 | Rated voltage Rated current (Amps) Pre-arcing 8 Clearing at 750 V d.c. Watts loss (W) 5 8.5 16 6.7 8 50 100 8.8 10 95 200 8.5 15 100 240 5 20 125 315 7.8 25 400 1100 6.5 30 800 2600 6.5 35 1300 4300 6 750 V d.c. (IEC) 40 1600 5300 6.8 750 V d.c. (IEC) 50 3100 12000 7.3 | |

Dimensions mm (in) - 5 A to 30 A

Dimensions mm (in) - 35 A to 60 A





146.05 (5.75")



LRC750 - Ferrule fuse links, 750 V d.c. (IEC), 30 A to 50 A

Specifications

Description

Ferrule high speed fuse links for light rail applications in auxiliary power and distribution equipment. Also suitable for heavy rails applications in instrumentation and control circuits equipment.

Technical data

- Rated voltage: 750 V d.c. (IEC)
- Rated current: 30 A to 50 A
- Breaking capacity: 50 kA at 750 V d.c., L/R 15-20ms
- Operating class: gR

Standards / Agency information

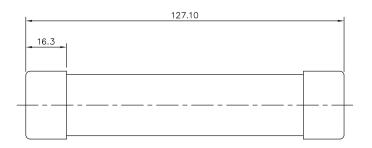
Tested in line with IEC 60269

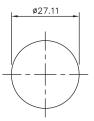




| | | | I²t (A² Sec) | | | Catalogue numbers | |
|----------------|------------------|---------------------------|--------------|---------------------------|-------------------|----------------------|--|
| Fuse link type | Rated voltage | Rated current e (Amps) | Pre-arcing | Clearing at 750 V d.c. | Watts loss (W) | | |
| | | 30 | 700 | 2250 | 4.5 | 30LRC750 | |
| LRC750 | 750 V d.c. (IEC) | 40 | 1800 | 5300 | 5.8 | 40LRC750 | |
| | | 50 | 3100 | 12000 | 9.4 | 50LRC750 | |

Dimensions (mm)





Data sheets: 5785132

FWL and FWS - 20 x 127 mm, Ferrule fuse links, 1200-1400-2000 V a.c. (IEC), 1000 V d.c. (IEC), 2 A to 30 A

Specifications

Description

Ferrule high speed fuse links for light rail applications in auxiliary power and distribution equipment.

Technical data

- Rated voltage:
 - FWL: 1200 V a.c. (IEC) / 1000 V d.c.
 - FWS: 2000 V a.c. / 1000 V d.c. (IEC, 2 A to 8 A) 1400 V a.c. / 1000 V d.c. (IEC 10 A to 15 A)
- Rated current: 2 A to 30 A
- Breaking capacity: 50 kA at 1000 V d.c., L/R 15ms
- Operating class: gG

Standards / Agency information

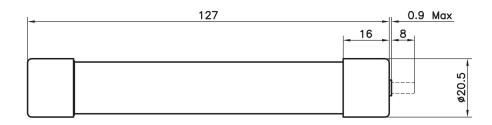
Consult Eaton bulehighspeedtechnical@eaton.com

Catalogue numbers



| | | | l²t (A² Sec) | | | Catalogue numbers | | |
|---|----------------------|-------------------------|--------------|----------------------------|-------------------|----------------------|----------------|--|
| Fuse link size | Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 1000 V d.c. | Watts loss (W) | Without indicator | With indicator | |
| | 2000 V a.c./ | 2 | 0.8 | 2.4 | 4.4 | FWS-2A20F | FWS-2A20FI | |
| | 1000 V d.c. | 6 | 27 | 81 | 6.7 | FWS-6A20F | FWS-6A20FI | |
| | (IEC) | 8 | 64 | 192 | 7.6 | FWS-8A20F | FWS-8A20FI | |
| (¹³ / ₁₆ " x 5) | 1400 V a.c./ | 10 | 118 | 277 | 3.0 | FWS-10A20F | FWS-10A20FI | |
| | 1000 V d.c. | 12 | 170 | 380 | 3.4 | FWS-12A20F | FWS-12A20FI | |
| | (IEC) | 15 | 209 | 500 | 5.0 | FWS-15A20F | FWS-15A20FI | |
| | 1200 V a.c./ | 20 | 675 | 1550 | 5.9 | FWL-20A20F | FWL-20A20FI | |
| 20 x 127 mm (¹³ / ₁₆ " x 5) | 1000 V d.c. (IEC) | 25 | 1200 | 2760 | 6.5 | FWL-25A20F | FWL-25A20FI | |
| | | 30 | 1850 | 4300 | 7.5 | FWL-30A20F | FWL-30A20FI | |

Dimensions (mm)



KC36 - Round body fuse links, 750 V d.c. (IEC), 5 A to 60 A

Specifications

Description

Ferrule high speed fuse links for light rail applications in auxiliary power and distribution equipment. Also suitable for heavy rails applications in instrumentation and control circuits equipment.

Technical data

- Rated voltage: 750 V d.c. (IEC)
- Rated current: 5 A to 60 A
- Breaking capacity: 50 kA at 750 V d.c., L/R 15-20ms
- Operating class: gR

Standards / Agency information

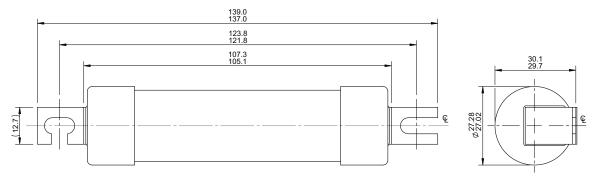
Tested in line with IEC 60269

Catalogue numbers



| | | l²t (A² Sec) | | | | |
|------------------|-------------------------|--|---|---|---|--|
| Rated voltage | Rated current (Amps) | Pre-arcing | Clearing at 750 V d.c. | Watts loss (W) | Catalogue numbers | |
| | 5 | 8.5 | 16 | 6.7 | 5KC36 | |
| | 8 | 50 | 100 | 8.8 | 8KC36 | |
| | 10 | 95 | 200 | 8.5 | 10KC36 | |
| | 15 | 100 | 240 | 5 | 15KC36 | |
| | 20 | 125 | 315 | 7.8 | 20KC36 | |
| 750 V d.c. (IEC) | 25 | 400 | 1100 | 6.5 | 25KC36 | |
| | 30 | 800 | 2600 | 6.5 | 30KC36 | |
| | 35 | 1300 | 4300 | 6 | 35KC36 | |
| | 40 | 1600 | 5300 | 6.8 | 40KC36 | |
| | 50 | 3100 | 12,000 | 7.3 | 50KC36 | |
| | 60 | 5900 | 24,000 | 7.7 | 60KC36 | |
| | | Rated voltage (Amps) 5 8 10 15 20 25 30 35 40 50 | Rated voltage Rated current (Amps) Pre-arcing 5 8.5 8 50 10 95 15 100 20 125 25 400 30 800 35 1300 40 1600 50 3100 | Rated voltage Rated current (Amps) Pre-arcing Clearing at 750 V d.c. 5 8.5 16 8 50 100 10 95 200 15 100 240 20 125 315 25 400 1100 30 800 2600 35 1300 4300 40 1600 5300 50 3100 12,000 | Rated voltage Rated current (Amps) Pre-arcing Clearing at 750 V d.c. Watts loss (W) 5 8.5 16 6.7 8 50 100 8.8 10 95 200 8.5 15 100 240 5 20 125 315 7.8 25 400 1100 6.5 30 800 2600 6.5 35 1300 4300 6 40 1600 5300 6.8 50 3100 12,000 7.3 | |

Dimensions (mm)



Data sheet:5785049

RC - Round body fuse links, 750 V d.c. (IEC), 200 A to 400 A

Specifications

Description

Round bodied bolted tags high speed traction fuse links which provides protection for DC traction third rail applications.

Technical data

- Rated voltage: 750 V d.c. (IEC)
- Rated current: 200 A to 400 A
- Breaking capacity: Consult Eaton bulehighspeedtechnical@eaton.com
- Operating class: gG

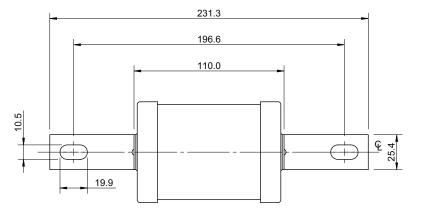
Standards / Agency information

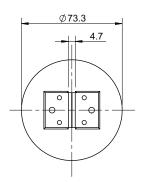
Consult Eaton bulehighspeedtechnical@eaton.com

Catalogue numbers

| Rated voltage | Rated current (Amps) | I²t (A²s) | Watts loss (W) | Catalogue numbers |
|------------------|-------------------------|-----------|-------------------|----------------------|
| 750 V d.c. (IEC) | 200 | 85,000 | 31 | 200RC |
| | 250 | 225,000 | 33 | 250RC |
| | 300 | 340,000 | 37 | 300RC |
| | 350 | 530,000 | 41 | 350RC |
| | 400 | 765,000 | 48 | 400RC |

Dimensions (mm)







NBC - Round body fuse links, 1500 V d.c. (IEC), 25 A to 200 A

Specifications

Description

A range of round body bolted tags high speed fuse links for heavy rail applications such as auxiliary and distribution equipment.

Technical data

- Rated voltage: 1500 V d.c. (IEC)
- Rated current: 25 A to 200 A
- Breaking capacity: Consult Eaton for interrupting rating and time constant capabilities.
- Operating class: gR

Standards / Agency information

Consult Eaton bulehighspeedtechnical@eaton.com



Catalogue numbers

| Fuse link type | Rated voltage | Rated current (Amps) | Catalogue numbers |
|----------------|-------------------|-------------------------|----------------------|
| | | 25 | NBC-25 |
| | | 60 | NBC-60 |
| NBC | 1500 \/ d a //50\ | 70 | NBC-70 |
| INDU | 1500 V d.c. (IEC) | 100 | NBC-100 |
| | | 150 | NBC-150 |
| | | 200 | NBC-200 |

Consult Eaton bulehighspeedtechnical@eaton.com.for dimensions drawings: 25 and 60 Amps: BU-NBC-25-60 70 and 100 Amps: BU-NBC-70-100 150 and 200 Amps: BU-NBC-150 and 200

PVM - 10 x 38 mm, 600 V d.c. (UL), 4 A to 30 A

Specifications

Description

A range of UL 2579 fast-acting 600 V d.c. midget fuse links specifically designed to protect solar power systems in extreme ambient temperature, high cycling and low level fault Rated current conditions (reverse rated current, multi-array fault).

Technical data

- Rated voltage: 600 V d.c. to UL 2579
- Rated current: 4 A to 30 A
- Breaking capacity: 50 kA DC (4 A to 30 A)

Compatible fuse holder CHPV

Standards / Agency information

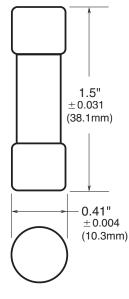
UL Listed 2579, Guide JFGA, File E335324, CSA Component Certified C22.2

Catalogue numbers

| | Rated current | Power Loss (W) | | — Catalogue |
|-------------------|---------------|----------------------|--------------------|-------------|
| Rated voltage | (Amps) | 0.8 x I _n | 1 x I _n | numbers |
| | 4 | | | PVM-4 |
| | 5 | | | PVM-5 |
| | 6 | | | PVM-6 |
| | 7 | | | PVM-7 |
| | 8 | | | PVM-8 |
| 600 \/ d a /UII \ | 9 | | | PVM-9 |
| 600 V d.c. (UL) | 10 | 1 | 1.9 | PVM-10 |
| | 12 | | | PVM-12 |
| | 15 | 1 | 1.7 | PVM-15 |
| | 20 | | | PVM-20 |
| | 25 | | | PVM-25 |
| | 30 | 1.6 | 2.9 | PVM-30 |

Please contact FUSETECH@eaton.com for further information

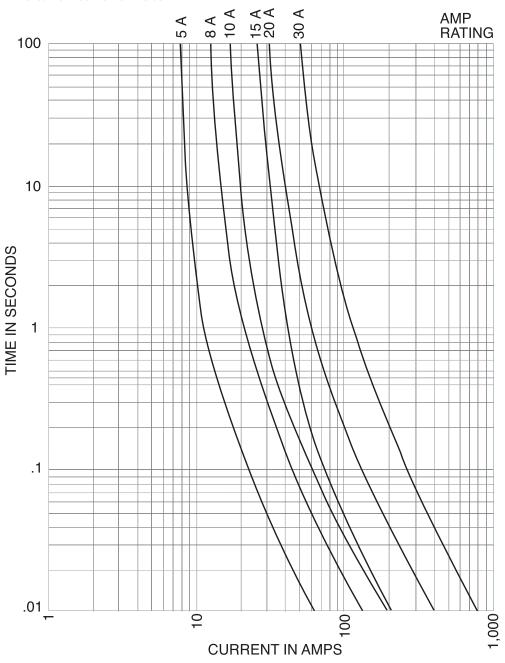
Dimensions in (mm)





Photovoltaic fuse links, fuse bases and holders

PVM - 10 x 38 mm, 600 V d.c. (UL), 4 A to 30 A



Time-current curve - 5 A to 30 A

Please contact FUSETECH@eaton.com for further information

Data sheet: 2153

PV-A10 - 10 x 38 mm, 1000 V d.c. (IEC/UL), 1 A to 20 A

Specifications

Description

A range of fuse links in a 10 x 38 mm package specifically designed for the protection and isolation of photovoltaic strings. The fuse links are capable of interrupting low over rated currents associated with faulted PV (reverse rated current, multi-array fault) string arrays.

Technical data

- Rated voltage: 1000 V d.c. (IEC/UL)
- Rated current: 1 A to 20 A
- Breaking capacity: 50 kA
- Operating class: gPV and UL PV fuse links

Compatible fuse holder

CHPV

Standards / Agency information

IEC 60269-6, UL Recognised 2579 (File number E335324), CSA, CCC (1-15A), RoHS compliant.

Catalogue numbers - Cylindrical and bolt fixing fuse links



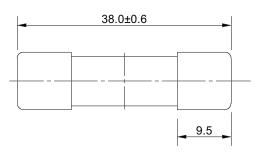
| | | I²t (A² Sec) | | Watts lo | ss (W) | Catalogue nu | mbers |
|----------------------|-------------------------|--------------|-------------------------|----------|--------|--------------|-------------|
| Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1000 V d.c. | 0.8 In | In | Cylindrical | Bolt fixing |
| | 1 | 0.2 | 0.4 | 0.8 | 1.5 | PV-1A10F | PV-1A10-T |
| Rated voltage | 2 | 1.2 | 4 | 0.6 | 1.0 | PV-2A10F | PV-2A10-T |
| | 2.5 | 3 | 9 | 0.6 | 1.0 | PV-2-5A10F | PV-2-5A10-T |
| | 3 | 4 | 11 | 0.8 | 1.3 | PV-3A10F | PV-3A10-T |
| | 3.5 | 6.6 | 18 | 0.9 | 1.4 | PV-3-5A10F | PV-3-5A10-T |
| | 4 | 9.5 | 26 | 1.0 | 1.5 | PV-4A10F | PV-4A10-T |
| 1000 \/ // //EO\ | 5 | 19 | 50 | 1.0 | 1.6 | PV-5A10F | PV-5A10-T |
| 1000 V U.C. (OL/IEC) | 6 | 30 | 90 | 1.1 | 1.8 | PV-6A10F | PV-6A10-T |
| | 8 | 3 | 32 | 1.2 | 2.1 | PV-8A10F | PV-8A10-T |
| | 10 | 7 | 70 | 1.2 | 2.3 | PV-10A10F | PV-10A10-T |
| | 12 | 12 | 120 | 1.5 | 2.7 | PV-12A10F | PV-12A10-T |
| | 15 | 15 | 160 | 1.7 | 2.9 | PV-15A10F | PV-15A10-T |
| | 16 | 19 | 200 | 1.8 | 3 | PV-16A10F | PV-16A10-T |
| | 20 | 34 | 350 | 2.1 | 3.6 | PV-20A10F | PV-20A10-T |

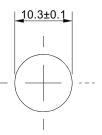
Catalogue numbers - PCB fixing fuse links

| | | I²t (A² Sec) | | Watts lo | ss (W) | Catalogue nu | nbers | |
|----------------------|-------------------------|--------------|-------------------------|--------------------|--------|--------------------------|--------------------------|-------------------------------------|
| Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1000 V d.c. | 0.8 I _n | In | PCB fixing single pin | PCB fixing double pin | PCB fixing double pin silver cap |
| | 1 | 0.2 | 0.4 | 0.8 | 1.5 | PV-1A10-1P | PV-1A10-2P | PV-1A10-2P-S |
| | 2 | 1.2 | 4 | 0.6 | 1.0 | PV-2A10-1P | PV-2A10-2P | PV-2A10-2P-S |
| | 2.5 | 3 | 9 | 0.6 | 1.0 | PV-2-5A10-1P | PV-2-5A10-2P | PV-2-5A10-2P-S |
| | 3 | 4 | 11 | 0.8 | 1.3 | PV-3A10-1P | PV-3A10-2P | PV-3A10-2P-S |
| | 3.5 | 6.6 | 18 | 0.9 | 1.4 | PV-3-5A10-1P | PV-3-5A10-2P | PV-3-5A10-2P-S |
| | 4 | 9.5 | 26 | 1.0 | 1.5 | PV-4A10-1P | PV-4A10-2P | PV-4A10-2P-S |
| | 5 | 19 | 50 | 1.0 | 1.6 | PV-5A10-1P | PV-5A10-2P | PV-5A10-2P-S |
| 1000 V d.c. (UL/IEC) | 6 | 30 | 90 | 1.1 | 1.8 | PV-6A10-1P | PV-6A10-2P | PV-6A10-2P-S |
| | 8 | 3 | 32 | 1.2 | 2.1 | PV-8A10-1P | PV-8A10-2P | PV-8A10-2P-S |
| | 10 | 7 | 70 | 1.2 | 2.3 | PV-10A10-1P | PV-10A10-2P | PV-10A10-2P-S |
| | 12 | 12 | 120 | 1.5 | 2.7 | PV-12A10-1P | PV-12A10-2P | PV-12A10-2P-S |
| | 15 | 15 | 160 | 1.7 | 2.9 | PV-15A10-1P | PV-15A10-2P | PV-15A10-2P-S |
| | 16 | 19 | 200 | 1.8 | 3 | PV-16A10-1P | PV-16A10-2P | PV-16A10-2P-S |
| | 20 | 34 | 350 | 2.1 | 3.6 | PV-20A10-1P | PV-20A10-2P | PV-20A10-2P-S |

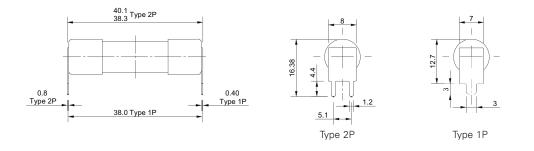
PV-A10 - 10 x 38 mm, 1000 V d.c. (IEC/UL), 1 A to 20 A

Dimensions (mm) - PV-**A10F, Cylindrical

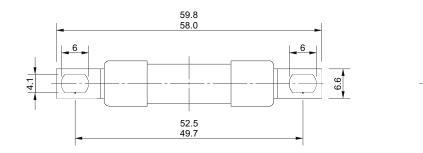




Dimensions (mm) - PV-**A10-xP, PCB fixing

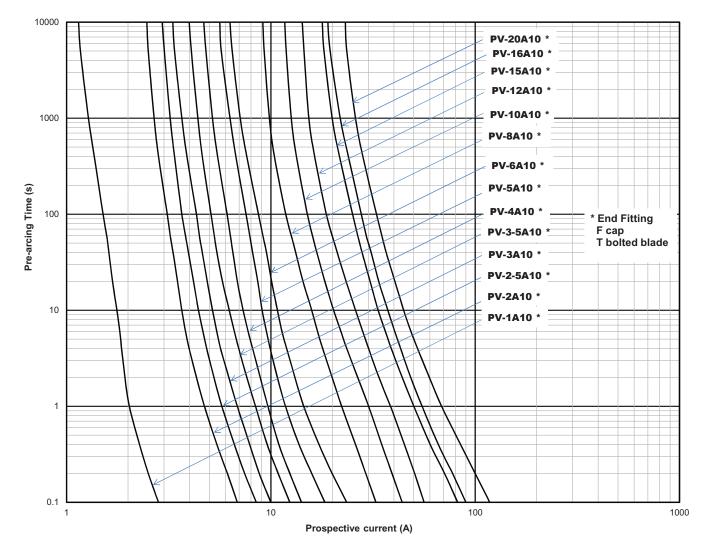


Dimensions (mm) - PV-**A10-T, Bolt fixing

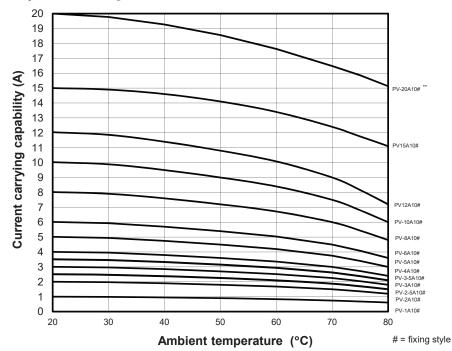


PV-A10 - 10 x 38 mm, 1000 V d.c. (IEC/UL), 1 A to 20 A

Time-current curve - 1 A to 20 A



Temperature deratings



CHPV - Modular fuse holders, 1000 V d.c. (IEC/UL), 32 A (IEC), 30 A (UL

Specifications

Description

Compact DIN-Rail mounting fuse holders specifically designed for 10 \times 38 mm photovoltaic fuse links.

Catalogue numbers

- CHPV1U 1-pole modular fuse holder
- CHPV2U 2-pole modular fuse holder
- CHPV1IU 1-pole modular fuse holder with neon indicator
- CHPV2IU 2-pole modular fuse holder with neon indicator

Technical data

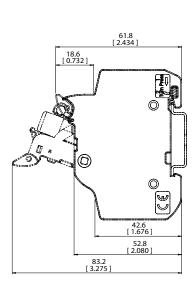


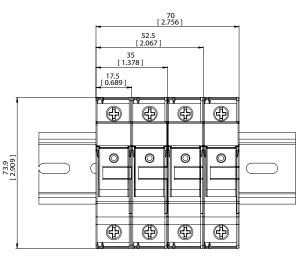
| IEC | | UL | | _ | Rated breaking | | | |
|------------------|------------------|------------------|------------------|--|-----------------------|--|--|--|
| Rated voltage | Rated current | Rated voltage | Rated current | Terminal rating | withstand capactiy | Compatible Bussmann series fuse links | | |
| 1000 V d.c. | 32 A | 1000 V d.c. | 30 A | IEC 1 to 25 mm ² 70°C PVC Copper cable (solid stranded or fine stranded) Spade lug Comb bus bar | 33 kA rms sym | Solar PV range: PVM, PV-A10F | | |

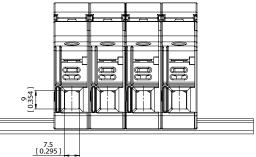
Standards / Agency information

| IEC | UL | CSA | CCC | CE |
|-------------|--|-------------------------------------|------------|---------|
| IEC 60269-1 | UL 4248-1 UL4248-19 UL file E14853 | C22.2 No 4248.1 C22.2 No 4248.19 | GB 13539.1 | DCB 272 |

Dimensions mm (in)







PV-A10F85L - 10 x 85 mm, 1500 V d.c. (IEC/UL), 2.25 A to 30 A

Specifications

Description

A range of fuse links in a 10 \times 85 mm package specifically designed for the protection and isolation of photovoltaic strings.

Technical data

- Rated voltage: 1500 V d.c.
- Rated current: 2.25 A to 30 A
- Breaking capacity: 30 kA 1 ms
- Operating class: gPV

Compatible fuse holder

CHPV15L85

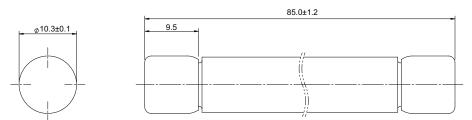
Standards / Agency information

IEC 60269-6, UL 248-19, RoHS compliant

Catalogue numbers

| | | I²t (A² Sec) | | Watts los | ss (W) | |
|----------------------|-------------------------|--------------|-------------------------|--------------------|--------|----------------------|
| Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1500 V d.c. | 0.8 l _n | In | Catalogue numbers |
| | 2.25 | 3 | 10 | 1.4 | 2.4 | PV-2-25A10F85L |
| | 2.5 | 4 | 10 | 1.3 | 2.1 | PV-2.5A10F85L |
| | 3 | 7 | 20 | 1.3 | 2.2 | PV-3A10F85L |
| | 3.5 | 10 | 20 | 1.6 | 2.6 | PV-3.5A10F85L |
| | 4 | 15 | 30 | 1.7 | 2.8 | PV-4A10F85L |
| | 5 | 33 | 60 | 1.7 | 2.8 | PV-5A10F85L |
| 1500 V d.c. (IEC/UL) | 12 | 19 | 240 | 2.1 | 3.5 | PV-12A10F85L |
| | 15 | 42 | 300 | 2.2 | 3.6 | PV-15A10F85L |
| | 16 | 48 | 350 | 2.1 | 3.5 | PV-16A10F85L |
| | 20 | 108 | 800 | 2.7 | 4.5 | PV-20A10F85L |
| | 25 | 190 | 1400 | 3.4 | 5.6 | PV-25A10F85L |
| | 30 | 485 | 3500 | 4 | 6.6 | PV-30A10F85L |

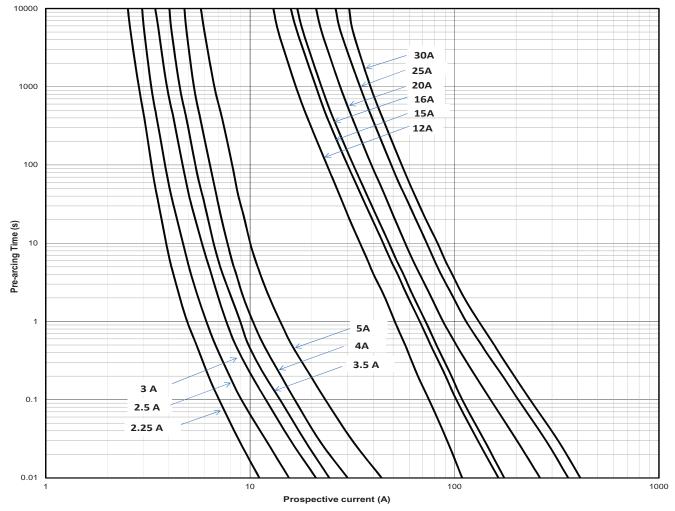
Dimensions (mm)





PV-A10F85L - 10 x 85 mm, 1500 V d.c. (IEC/UL), 2.25 A to 30 A

Time-current curve - 2.25 A to 30 A



CHPV15H85 -10 x 85 mm fuse holder, 1500 V d.c., 32 A (IEC/UL)

Specifications

Description

Eaton's Bussmann series 10×85 mm fuse holders are suitable for use with 10×85 mm and 14×85 mm cylindrical gPV fuse links. The unique design offers high degree of safety. There is no possibility of any accidental contact with live parts during replacement of the fuse links. When the fuse carrier is extracted, a spring loaded cover moves out covering the live parts hence protecting against accidental damage.

Catalogue symbol

CHPV15H85

Compatible fuse links

- 10 x 85 mm fuse links PV-A10F85L
- 14 x 85 mm fuse links PV-A14LF

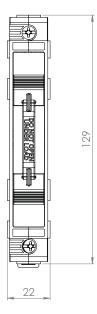
Technical data

- Rated voltage: 1500 V d.c.
- Rated current: 32 A (IEC/UL)
- Breaking capacity: 50 kA

Standards / Agency information

- IIEC 60269-1
- IEC 60269-6
- UL 4248-1 Edition 1 (File number 348242)
- UL 4248-19 Edition 1

Dimensions (mm)





PV-14F - 14 x 51 mm, 1000 and 1100 V d.c. (IEC/UL), 15 A to 32 A

Specifications

Description

A range of fuse links in a 14 x 51 mm package specifically designed for the protection and isolation of photovoltaic strings. The fuse links are capable of interrupting low overrated currents associated with faulted PV (reverse rated current, multi-array fault).

Technical data

- Rated voltage:
- 1100 V d.c. (IEC and UL, 15 A and 20 A)
- 1000 V d.c. (IEC and UL, 25 A and 32 A)
- Rated current: 15 A to 32 A
- Breaking capacity: 30 kA
- Operating class: gPV and UL PV fuse links

Compatible fuse holder

• CHPV14

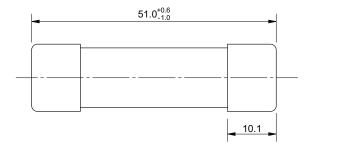
Standards / Agency information

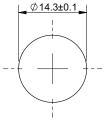
IIEC 60269-6, UL Recognised 2579 (File number E335324), RoHS compliant. Pending: CCC

Catalogue numbers

| | | I²t (A² Sec) | Watts los | ss (W) | | |
|-------------------------|-------------------------|--------------------------------------|-----------|--------------------|-----|----------------------|
| Rated voltage | Rated current (Amps) | Total Pre-arcing at rated voltage | | 0.8 I _n | In | Catalogue numbers |
| 1100 \/ d a //EC///// \ | 15 | 14 | 270 | 2.1 | 4 | PV-15A14F |
| 1100 V d.c. (IEC/UL) | 20 | 27 | 570 | 2.9 | 5.5 | PV-20A14F |
| 1000.)/ //F0//// | 25 | 65 | 950 | 2.8 | 5.3 | PV-25A14F |
| 1000 V d.c. (IEC/UL) | 32 | 120 | 1750 | 4 | 7.5 | PV-32A14F |

Dimensions (mm)

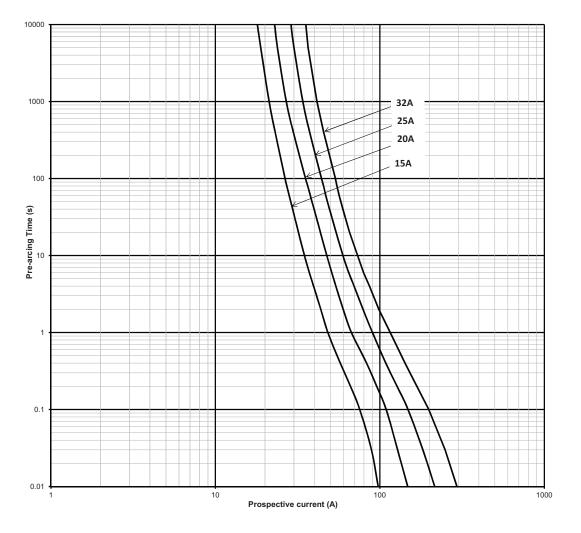






PV-14F - 14 x 51 mm, 1000 and 1100 V d.c. (IEC/UL), 15 A to 32 A

Time-current curve - 15 A to 32 A



CHPV14 - 14 x 51 mm, Modular fuse holders, 1500 V d.c., 50 A

Specifications

Description

Compact DIN-Rail mounting fuse holders specifically designed for 14 \times 51 mm photovoltaic fuse links.

Catalogue numbers

- CHPV141U 1-pole without indicator
- CHPV142 2-pole without indicator
- CHPV141IU 1-pole with indicator
- CHPV142IU 2-pole with indicator

Standards / Agency information

IEC 60269-1 and 2, UL Listed file number E348242

Technical data

Rated Rated

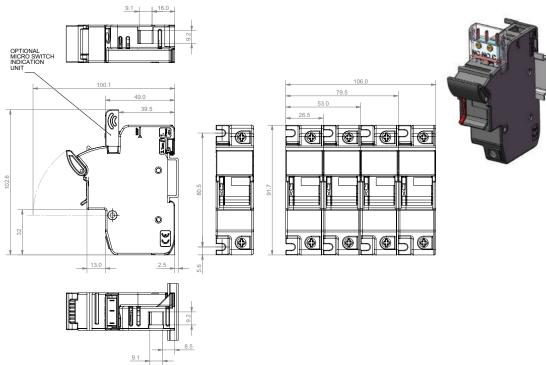
| voltage | current | Agency | | Rated breaking withstand | Compatible Bussmann series | |
|-------------|------------|----------------------------------|---|-----------------------------|-------------------------------|--|
| IEC and UL | IEC and UL | markings | Terminal rating | capactiy | fuse links | |
| | | | Cable size: 1.5-50 mm ² | | | |
| | | IEC 60269-1 and 2 | Recommended torque setting: 3.5 Nm | | | |
| 1500 V d.c. | 32 A | UL Listed file number E348242 | Maximum torque setting: 3.5Nm | 10 kA d.c. | PV-A14F | |
| | | | Mounting 35 mm DIN-Rail or 2 x M4 panel mounting screws | | | |

Accessories

Catalogue

| numbers | Description | Unit packing |
|----------|---|--------------|
| JV-L | Multi-pole connector kit. One kit will gang up to 4-poles together | 12 |
| CH14-CTP | IP20 Protection accessory, provides IP20 protection to terminals with 10mm ² or less cable | 12 |

Dimensions (mm)





PV-14L - 14 x 65 mm, 1300-1500 V d.c. (IEC and UL), 2.25 A to 32 A

Specifications

Description

A range of fuse links in a 14 x 65 mm package specifically designed for the protection and isolation of photovoltaic strings. The fuse links are capable of interrupting low overrated currents associated with faulted PV (reverse rated current, multi-array fault).

Technical data

- Rated voltage:
 - 1500 V d.c. (IEC and UL, 2.25 A to 20 A)
- 1300 V d.c. (IEC and UL, 25 A and 32 A)
- Rated current: 2.25 A to 32 A
- Breaking capacity: 10 kA
- Operating class: gPV and UL PV fuse links

Compatible fuse holder for PV-A14LF10F

CHPV15L85

Standards / Agency information

IEC 60269-6, UL Recognised 2579 (File number E335324), RoHS compliant, Pending: CCC.

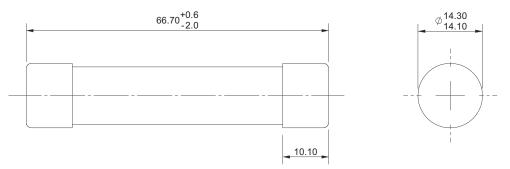
Catalogue numbers



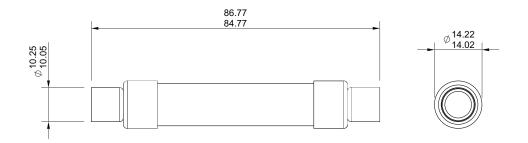
| | | l²t (A² Sec) | | Watts los | s (W) | Catalogue numbers | | |
|-------------------------|-------------------------|--------------|---------------------------|--------------------|-------|----------------------|--------------------------|----------------------------------|
| Rated voltage | Rated current (Amps) | Pre-arcing | Total at rated voltage | 0.8 l _n | In | Cylindrical | Cylindrical with tags | Cylindrical with 10mm fixings |
| | 2.25 | 4 | 8 | 1.4 | 2.3 | PV-2.25A14LF | N/A | PV-2.25A14LF10F |
| | 2.5 | 5 | 10 | 1.5 | 2.5 | PV-2.5A14LF | PV-2.5A14L-T | PV-2.5A14LF10F |
| | 3 | 8 | 14 | 1.7 | 2.8 | PV-3A14LF | PV-3A14L-T | PV-3A14LF10F |
| 1500 V d.c. (IEC/UL) | 3.5 | 12 | 23 | 1.8 | 3.0 | N/A | N/A | PV-3.5A14LF10F |
| | 4 | 18 | 34 | 2 | 3.3 | PV-4A14LF | PV-4A14L-T | PV-4A14LF10F |
| | 15 | 16 | 190 | 2.9 | 5.1 | PV-15A14LF | PV-15A14L-T | PV-15A14LF10F |
| | 20 | 34 | 400 | 3.8 | 6.9 | PV-20A14LF | PV-20A14L-T | PV-20A14LF10F |
| 1300 V d.c. | 25 | 65 | 550 | 4.1 | 7.5 | PV-25A14LF | PV-25A14L-T | PV-25A14LF10F |
| (IEC/UL) | 32 | 105 | 900 | 5.7 | 10.4 | PV-32A14LF | PV-32A14L-T | PV-32A14LF10F |

PV-14L - 14 x 65 mm, 1300-1500 V d.c. (IEC and UL), 2.25 A to 32 A

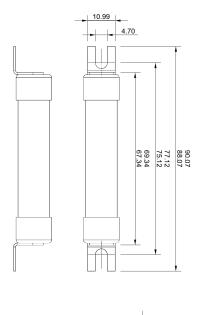
Dimensions (mm) - PV-*A14LF, Cylindrical



Dimensions (mm) - PV-*A14LF10F, Cylindrical with 10 mm Fixings



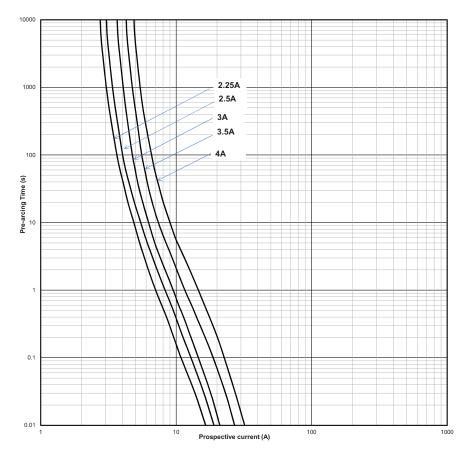
Dimensions (mm) - PV-*A14L-T, Cylindrical with tags



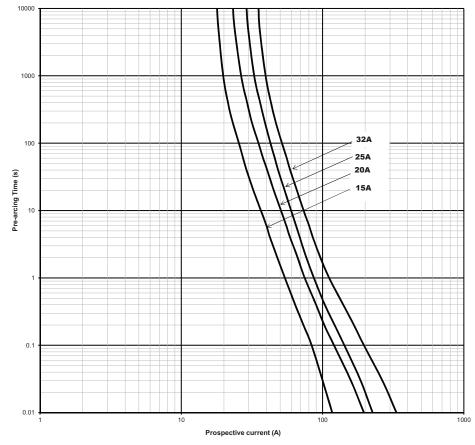


PV-14L - 14 x 65 mm, 1300-1500 V d.c. (IEC and UL), 2.25 A to 32 A

Time-current curve - 2.25 A to 4 A







Data sheet: 720139, 5785579

NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Specifications

Description

Eaton's Bussmann series NH size 800 V a.c. fuse links are specifically designed to meet the needs of branch circuit and transformer protection in photovoltaic inverter systems. The fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

Technical data

- Rated voltage: 800 V a.c.
- Rated current: 32 A to 400 A
- Breaking capacity: 65 kA
- Operating class: gR

Compatible fuse base

SD-D-PV see details page 352

Microswitches, for use with bladed version

- 170H0236
- 170H0238

Standards / Agency information

E12E09E) IEC 60260 4 (and dataile h UL 248-13 (file .

Catal

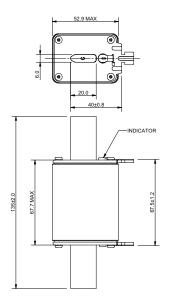
| atalogue | e numbers | | | | | | |
|------------------------|---------------|-------------------------|--------------|------------------------|-------------------|----------------------|----------------------------------|
| | | | I²t (A² Sec) | | Watts loss (W) | Catalogue numbers | |
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 800 V a.c. | In | Bladed with lugs | Blade with bolt holes no lugs |
| | | 32 | 80 | 2000 | 8 | 170M7350 | |
| | | 40 | 185 | 3000 | 9 | 170M7351 | |
| | | 50 | 400 | 6000 | 11 | 170M7352 | |
| | | 63 | 470 | 7000 | 12 | 170M7353* | 170M7353-B* |
| NH1 | 800 V a.c. | 80 | 640 | 9000 | 15 | 170M7354 | 170M7354-B |
| | | 100 | 1300 | 17000 | 16 | 170M7355 | 170M7355-B |
| | | 125 | 2600 | 34000 | 17 | 170M7356* | 170M7356-B* |
| | | 160 | 5200 | 68000 | 27 | 170M7357* | 170M7357-B* |
| | | 200 | 10200 | 140000 | 25 | 170M7358* | 170M7358-B* |
| | | 160 | 4600 | 36800 | 28 | 170M7397 | 170M7397-B |
| NH2 | 800 V a.c. | 200 | 9500 | 76000 | 32 | 170M7398 | 170M7398-B |
| | | 250 | 17000 | 136000 | 38 | 170M7399 | 170M7399-B |
| | | 315 | 32000 | 230000 | 44 | 170M7400* | 170M7400-B* |
| | | 355 | 44500 | 320000 | 46 | 170M7401* | |
| NH3 | 800 V a.c. | 400 | 67500 | 480000 | 50 | 170M7402* | |
| | | 355 | 38000 | 270000 | 48 | | 170M7401-B* |
| | | 400 | 61000 | 430000 | 50 | | 170M7402-B* |

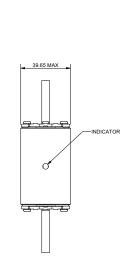
*UL 248-13 and IEC 60269-4



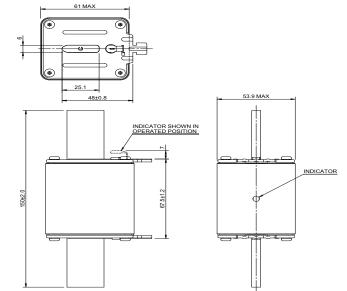
NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Dimensions (mm) - NH1, bladed with lugs

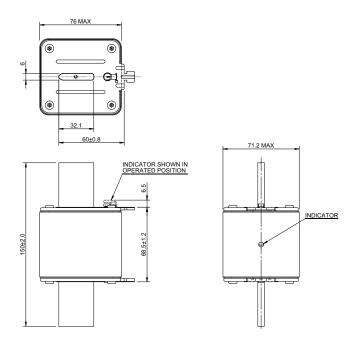




Dimensions (mm) - NH2, bladed with lugs

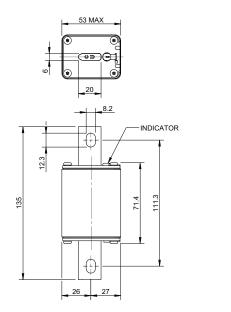


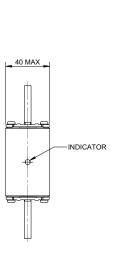
Dimensions (mm) - NH3, bladed with lugs

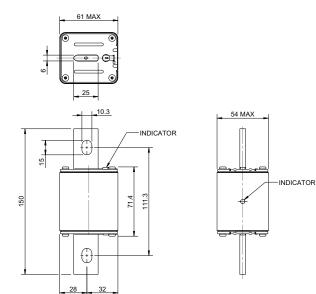


NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Dimensions (mm) - NH1,bolt holes no lugs

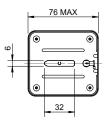


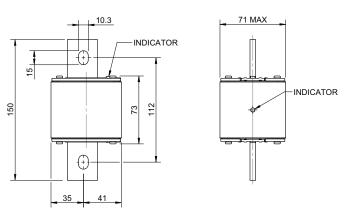




Dimensions (mm) - NH2, bolt holes no lugs

Dimensions (mm) - NH3, bolt holes no lugs



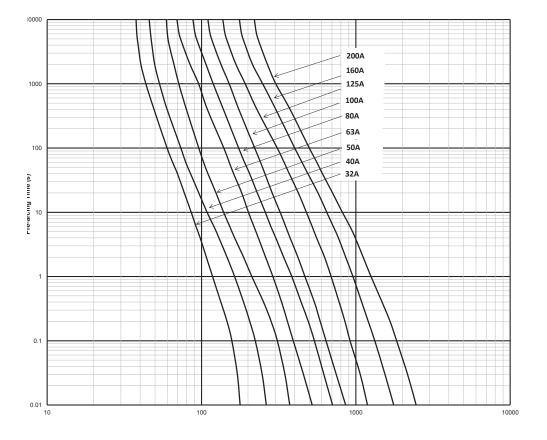


Data sheet: 10784

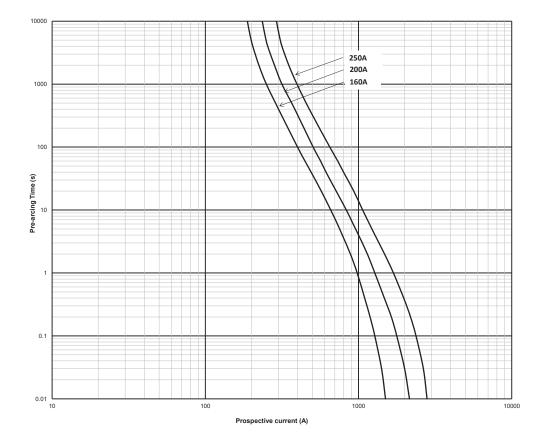
340

NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Time-current curve - Size 1, 32 A to 200 A

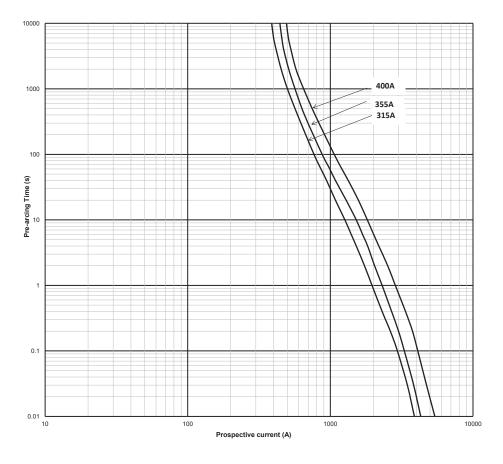


Time-current curve - Size 2, 160 A to 250 A

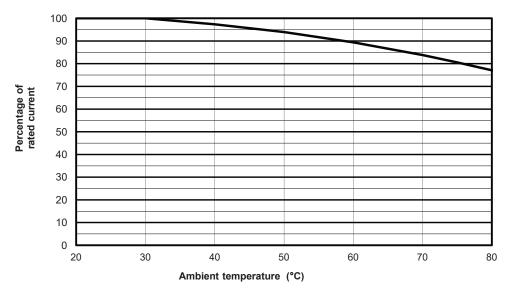


NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Time-current curve - Size 3, 315 A to 400 A

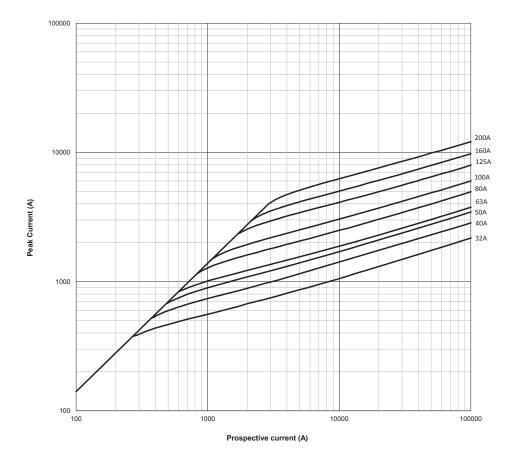


Temperature derating curve

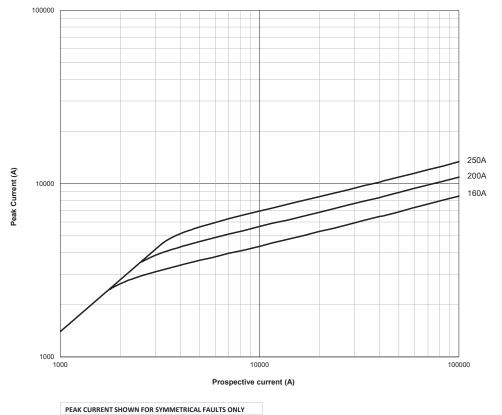


NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Cut-off curve - Size 1, 32 A to 200 A



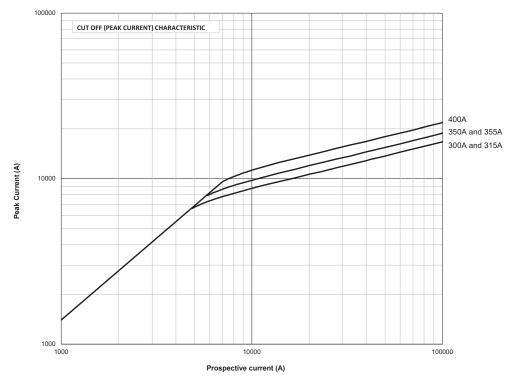
Cut-off peak current curve - Size 2, 160 A to 250 A



Data sheet: 10/84

NH 170M - 800 V a.c. (IEC/UL), 32 A to 400 A

Cut-off peak current curve - Sze 3, 315 A to 400 A



PEAK CURRENT SHOWN FOR SYMMETRICAL FAULTS ONLY

NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

Specifications

Description

A range of NH size bladed fuse links specifically designed for protecting and isolating photovoltaic array combiners and disconnects. These fuse links are capable of interrupting low overrated currents associated with faulted PV systems (reverse rated current, multi-array fault).

Technical data

- Rated voltage: 1000 V d.c. (IEC and UL)
- Rated current: 32 A to 400 A
- Breaking capacity: 50 kA
- Operating class: gPV and UL PV fuse links

Compatible fuse base

SD-D-PV see page 352

Standards / Agency information

IEC 60269-6, UL Recognised file 2579 E335324 for size 1 only, RoHS compliant

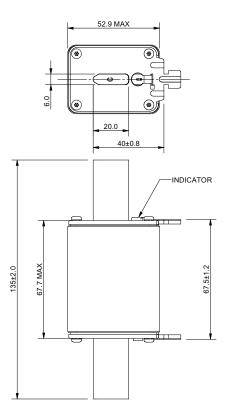
Catalogue numbers

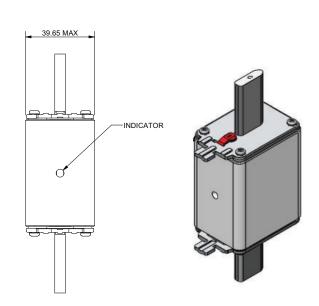


| | | | l²t (A² Sec) | | Watts | loss (W) | Catalogue numbers | | |
|------------------------|-------------------------|-------------------------|--------------|-------------------------|--------------------|----------|-----------------------------|--------------------------|-----------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1000 V d.c. | 0.8 l _n | In | Blade without bolt holes | Blade with bolt holes | Blade with bolt holes and lugs |
| | | 32 | 80 | 720 | 4 | 8 | PV-32ANH1 | PV-32ANH1-B | |
| | | 40 | 185 | 1670 | 5 | 9 | PV-40ANH1 | PV-40ANH1-B | _ |
| | | 50 | 400 | 3600 | 6 | 11 | PV-50ANH1 | PV-50ANH1-B | _ |
| | | 63 | 470 | 4300 | 6 | 12 | PV-63ANH1 | | _ |
| | 1000 1/ 1 | 80 | 640 | 5760 | 8 | 15 | PV-80ANH1 | _ | |
| NH1 | 1000 V d.c. (IEC/UL) | 100 | 1300 | 11700 | 8 | 16 | PV-100ANH1 | _ | |
| | (,, | 110 | 2100 | 18900 | 9 | 18.5 | PV-110ANH1 | _ | |
| | | 125 | 2600 | 23400 | 9 | 17 | PV-125ANH1 | _ | |
| | | 160 | 5200 | 46800 | 14 | 27 | PV-160ANH1 | _ | |
| | | 175 | 8300 | 74700 | 15 | 29 | PV-175ANH1 | _ | |
| | | 200 | 10200 | 82000 | 13 | 25 | PV-200ANH1 | _ | |
| | | 160 | 4600 | 37000 | 14 | 28 | PV-160ANH2 | _ | |
| NH2 | 1000 V d.c. (IEC/UL) | 200 | 9500 | 76000 | 16 | 32 | PV-200ANH2 | _ | |
| | (120/02) | 250 | 17000 | 136000 | 19 | 38 | PV-250ANH2 | _ | |
| | | 300 | 32000 | 260000 | 24 | 40 | PV-300ANH3 | _ | |
| | 1000 11 1 | 315 | 32000 | 260000 | 26 | 44 | PV-315ANH3 | _ | |
| NH3 | 1000 V d.c. (IEC/UL) | 350 | 44500 | 370000 | 27 | 45 | PV-350ANH3 | _ | |
| | (120) 02) | 355 | 44500 | 370000 | 28 | 46 | PV-355ANH3 | _ | |
| | | 400 | 67500 | 550000 | 30 | 50 | PV-400ANH3 | | |
| | | 63 | 470 | 4300 | 6 | 12 | _ | PV-63ANH1-B | PV-63ANH1-BL |
| | | 80 | 640 | 5760 | 8 | 15 | _ | PV-80ANH1-B | PV-80ANH1-BL |
| NH1 | 1000 V d.c. | 100 | 1300 | 11700 | 8 | 16 | _ | PV-100ANH1-B | PV-100ANH1-BL |
| | (IEC/UL) | 125 | 2600 | 23400 | 9 | 17 | _ | PV-125ANH1-B | PV-125ANH1-BL |
| | | 160 | 5200 | 46800 | 14 | 27 | _ | PV-160ANH1-B | PV-160ANH1-BL |
| | | 200 | 10200 | 82000 | 13 | 25 | _ | PV-200ANH1-B | PV-200ANH1-BL |
| | 1000 \/ -1 - | 160 | 4600 | 37000 | 14 | 28 | _ | PV-160ANH2-B | PV-160ANH2-BL |
| NH2 | 1000 V d.c. (IEC/UL) | 200 | 9500 | 76000 | 16 | 32 | _ | PV-200ANH2-B | PV-200ANH2-BL |
| | | 250 | 17000 | 136000 | 19 | 38 | _ | PV-250ANH2-B | PV-250ANH2-BL |
| | 1000 \/ -1 - | 315 | 32000 | 260000 | 26 | 44 | _ | PV-315ANH3-B | PV-315ANH3-BL |
| NH3 | 1000 V d.c. (IEC/UL) | 355 | 38000 | 310000 | 29 | 48 | _ | PV-355ANH3-B | PV-355ANH3-BL |
| | | 400 | 61000 | 490000 | 32 | 50 | | PV-400ANH3-B | PV-400ANH3-BL |

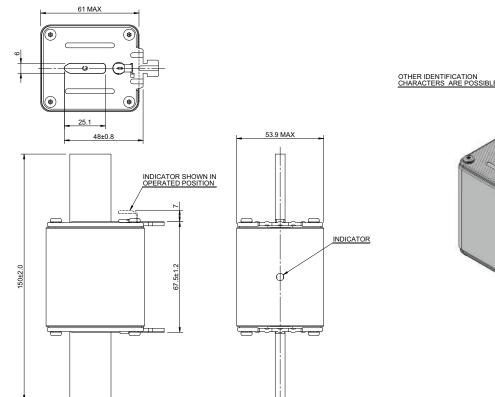
NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

Dimensions (mm) - NH1, blade without bolt holes



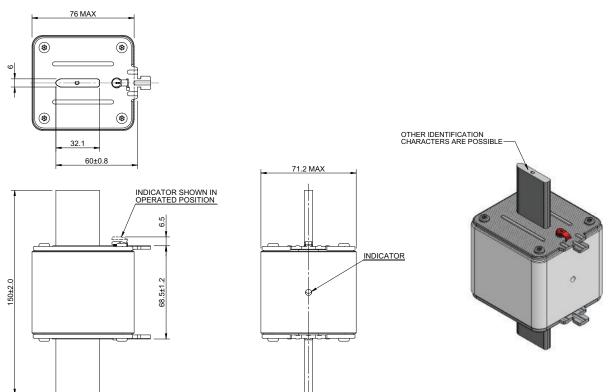


Dimensions (mm) - NH2, blade without bolt holes

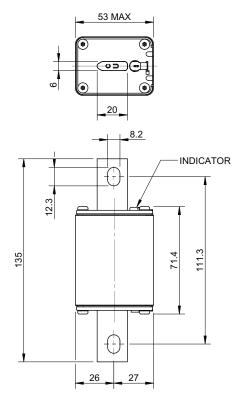


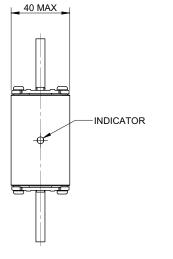
NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

Dimensions (mm) - NH3, blade without bolt holes



Dimensions (mm) - NH1, blade with bolt holes

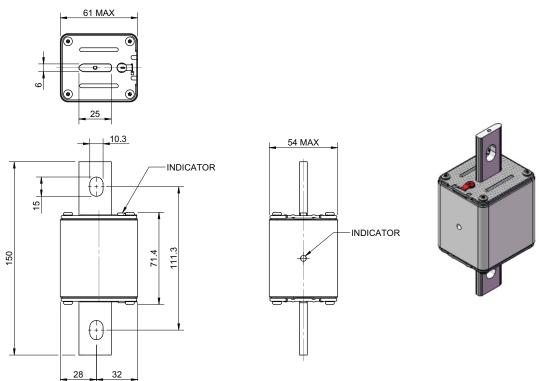




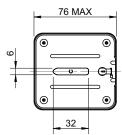


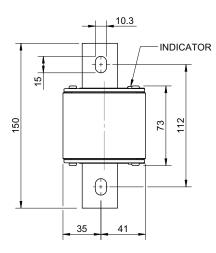
NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

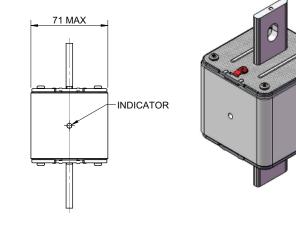
Dimensions (mm) - NH2, blade with bolt holes



Dimensions (mm) - NH3, blade with bolt holes

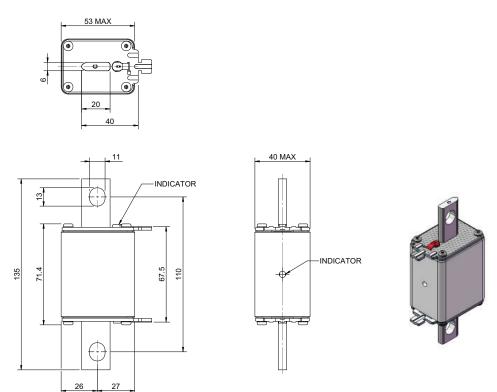




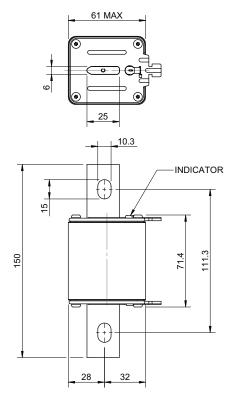


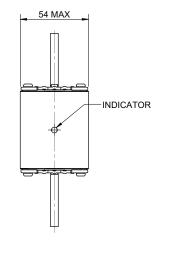
NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

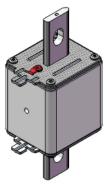
Dimensions (mm) - NH1, blade with bolt holes and lugs



Dimensions (mm) - NH2, blade with bolt holes and lugs

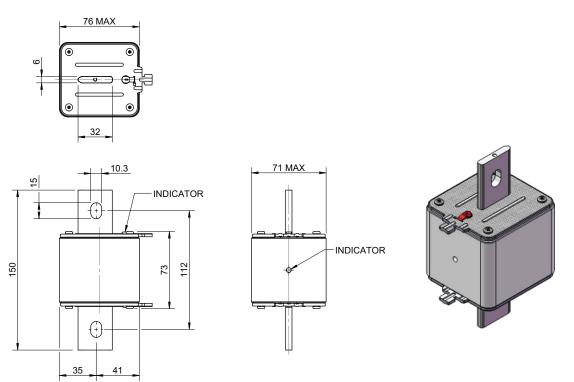




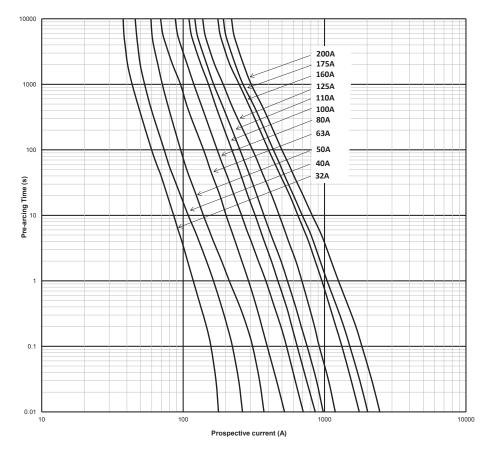


NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

Dimensions (mm) - NH3, blade with bolt holes and lugs



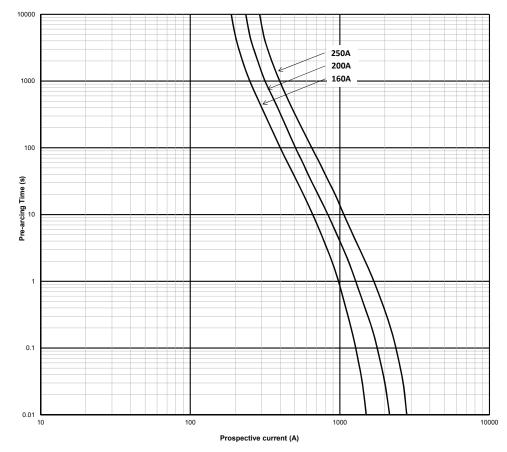
Time-current curve - Size 1, 32 A to 200 A



Data sheet: 720133

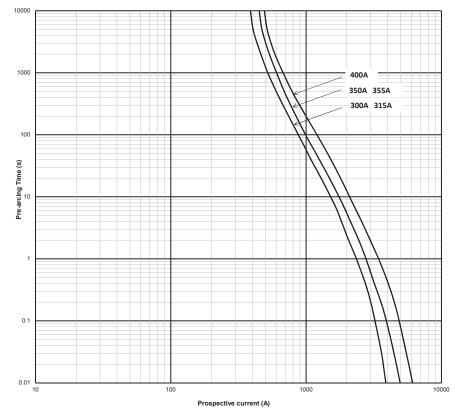
350

NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A



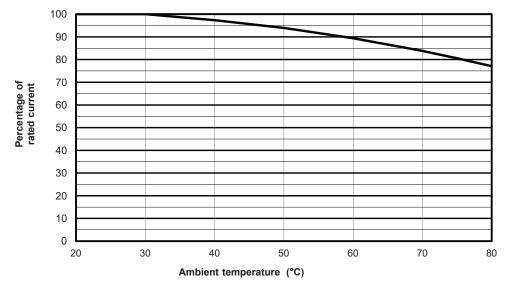
Time-current curve - Size 2, 160 A to 250 A

Time-current curve - Size 3, 300 A to 400 A

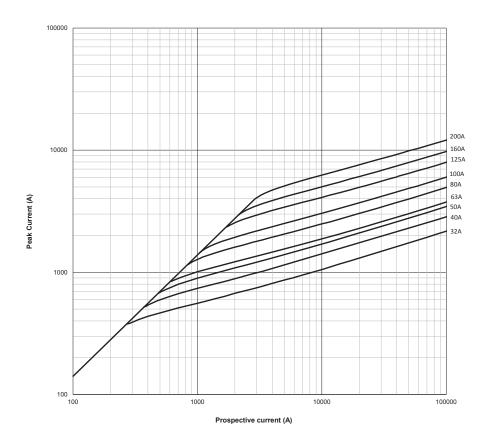


NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

Temperature derating curve - Sizes 1 to 3

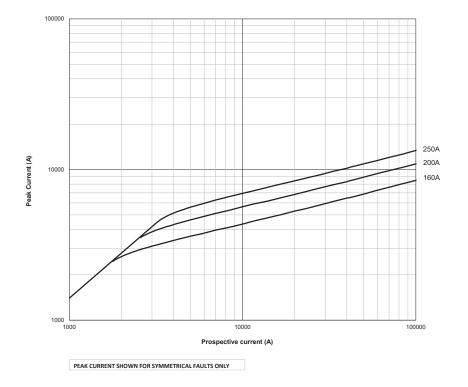


Cut-off curve - Size 1, 32 A to 200 A

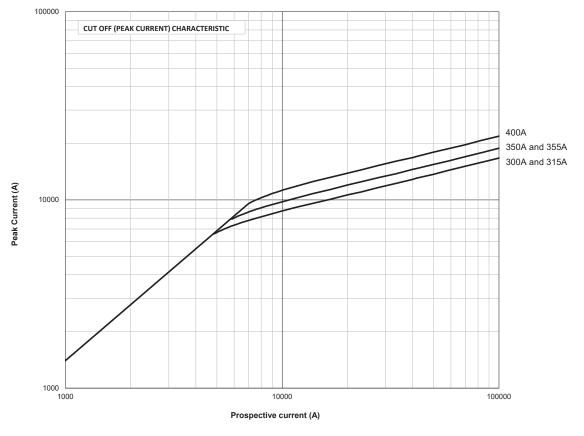


NH PV-ANH - 1000 V d.c. (IEC/UL), 32 A to 400 A

Cut-off curve - Size 2, 160 A to 250 A



Cut-off curve - Size 3, 300 A to 400 A



PEAK CURRENT SHOWN FOR SYMMETRICAL FAULTS ONLY

SD-D-PV - NH fuse bases, 1500 V d.c. (IEC), 1000 V d.c. (UL/CSA) 250 A to 630 A, sizes 1 to 3

Specifications

Description

Sizes 1 to 3 NH Fuse bases specifically designed for use with Bussmann series range of NH PV (Photovoltaic) fuse links.

Technical data

- Rated voltage:
 - 1500 V d.c. (IEC)
 - 1000 V d.c. (UL/CSA)
- Rated current:
 - 250 A (SD1)
 - 400 A (SD2)
 - 630 A (SD3)
- Fuse base sizes: 1 to 3
- Withstand: 50 kA
- Power acceptance
 - SD1: 32 W
 - SD2: 45 W
 - SD3: 60 W

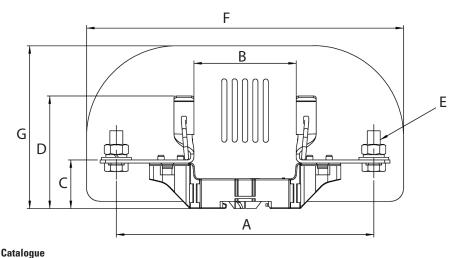
Standards / Agency information

IEC 60269-1, UL Listed - UL File #E348242, CSA file #47235

Accessories:

- Microswitches 170H0236, 170H0238 and BVL50
- IP20 Finger-Safe Protection Kit TD1-IP20, TD2-IP20, TD3-IP20
- Fuse extraction handle
- Shroud kits

Dimensions (mm) - 1-pole with phase barriers

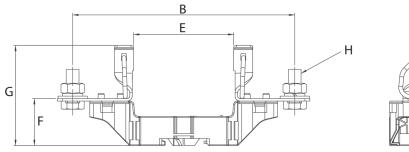


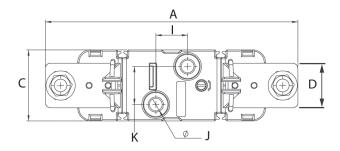
| numbers | Poles/Type | Α | В | C | D | E | F | G |
|----------|------------|-----|----|------|----|--------|-----|-------|
| SD1-D-PV | 1-pole | 175 | 79 | 37 | 78 | M10x25 | 245 | 125.5 |
| SD2-D-PV | 1 pole | 199 | 79 | 37.5 | 86 | M10x25 | 245 | 125.5 |
| SD3-D-PV | 1-pole | 209 | 82 | 37.5 | 88 | M12x30 | 260 | 137.5 |



SD-D-PV - NH fuse bases, 1500 V d.c. (IEC), 1000 V d.c. (UL/CSA) 250 A to 630 A, sizes 1 to 3

Dimensions (mm) - 1-pole without phase barriers





| Catalogue numbers | Poles | А | В | C | D | E | F | G | Н | I | J | К |
|----------------------|--------|-----|-----|----|----|----|------|----|--------|----|----|----|
| SD1-D-PV | 1-pole | 199 | 175 | 56 | 35 | 79 | 37 | 78 | M10x25 | 25 | 10 | 30 |
| SD2-D-PV | 1 pole | 224 | 199 | 56 | 35 | 79 | 37.5 | 86 | M10x25 | 25 | 10 | 30 |
| SD3-D-PV | 1-pole | 239 | 209 | 56 | 36 | 82 | 37.5 | 88 | M12x30 | 25 | 10 | 30 |

PV-AF - Flush end, 1000 V d.c. (IEC/UL), 160 A to 400 A

Specifications

Description

A range of flush end fuse links specifically designed for protecting and isolating photovoltaic array combiners and disconnects. These fuse links are capable of interrupting low overrated currents associated with faulted PV systems (reverse rated current, multi-array fault).

Technical data

- Rated voltage: 1000 V d.c. (IEC and UL)
- Rated current: 160 A to 400 A
- Breaking capacity: 50 kA
- Operating class: gPV and UL PV fuse links

Standards / Agency information

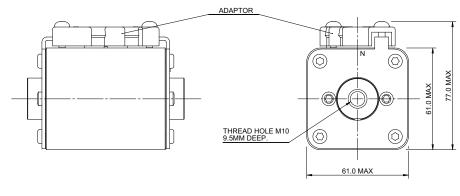
IEC 60269-6, UL 2579 (file number E335324), CSA Listed, RoHS compliant

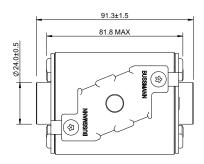
Catalogue numbers



| | | | | I²t (A² Sec) | | Watts loss (W) | | |
|----------------|------------------------|---------------------|-------------------------|--------------|-------------------------|--------------------|----|----------------------|
| Fuse link type | Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1000 V d.c. | 0.8 l _n | In | Catalogue numbers |
| | | | 160 | 4600 | 37,000 | 15 | 30 | PV-160AF2 |
| | 2 | 1000 V d.c.(IEC/UL) | 200 | 9500 | 76,000 | 17 | 34 | PV-200AF2 |
| Flush end | | | 250 | 17,000 | 136,000 | 19 | 38 | PV-250AF2 |
| Flush end | | | 315 | 27,000 | 240,000 | 30 | 49 | PV-315AF3 |
| | 3 | 1000 V d.c.(IEC/UL) | 355 | 37,000 | 350,000 | 31 | 51 | PV-355AF3 |
| | | | 400 | 61,500 | 550,000 | 32 | 52 | PV-400AF3 |

Dimensions (mm) - Size 2

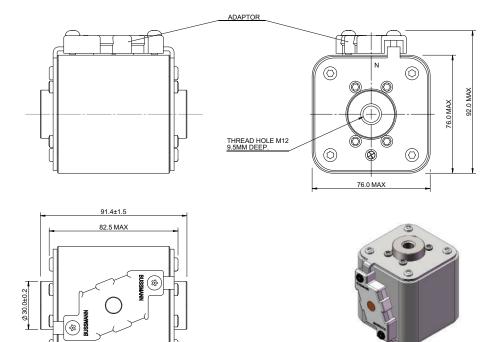




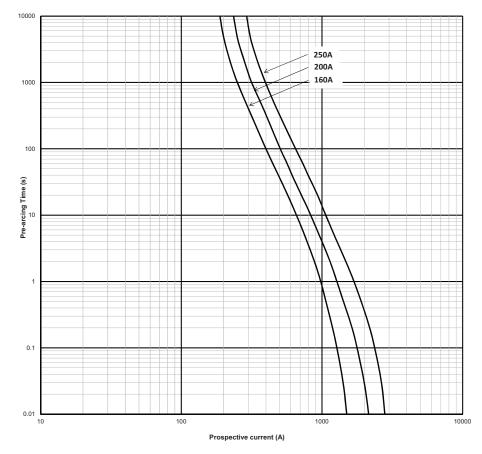


PV-AF - Flush end, 1000 V d.c. (IEC/UL), 160 A to 400 A

Dimensions (mm) - Size 3

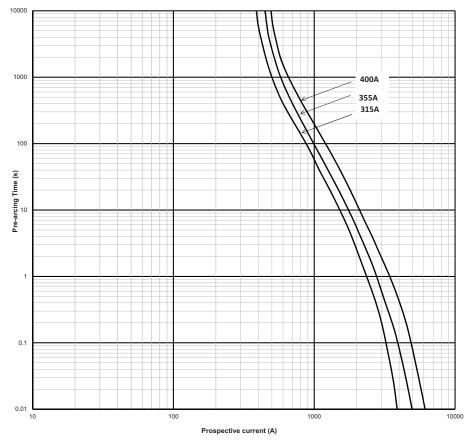


Time-current curve - Size 2, 160 A to 250 A



PV-AF - Flush end, 1000 V d.c. (IEC/UL), 160 A to 400 A

Time-current curve -Size 3, 315 A to 400 A



PV-XL - XL Style, 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Specifications

Description

A range of XL package bladed fuse links specifically designed for protecting and isolating photovoltaic array combiners and disconnects. These fuse links are capable of interrupting low overrated currents associated with faulted PV systems (reverse rated current, multi-array fault).

Technical data

- Rated voltage:
- 1000 V d.c. (IEC and UL 63 to 600 A)
- 1500 V d.c. (IEC and UL 50 to 500 A)
- Rated current: 50 A to 600 A
- · Breaking capacity: see catalogue numbers tables
- Operating class: gPV and UL PV fuse links

Compatible fuse base

• SD-S-PV

Microswitches

- For bladed fuse links
- 170H0235 or 170H0237 for 01XL
- 170H0236 or 170H0238 for 1XL, 2XL and 3L
- For bolted fuse links
 - 170H0069 for all sizes

Standards / Agency information

IEC 60269-6, UL Recognised file 2579 E335324, RoHS compliant

Catalogue numbers - PV-XL fuse links, 1000 V d.c.

| | | | Breaking capacity | l²t (A² Sec) | | Watts loss (W) | | Catalogue numbers | | |
|------------------------|---------------|-------------------------|----------------------|--------------|-------------------------|--------------------|-----|----------------------|-----------------|--|
| Fuse link body size | Rated voltage | Rated current (Amps) | (IEC/UL) (kA) | Pre-arcing | Total at 1000 V d.c. | 0.7 l _n | In | Bladed version | Bolted version | |
| | | 63 | 50 | 260 | 1900 | 10 | 24 | PV-63A-01XL | PV-63A-01XL-B | |
| | | 80 | 50 | 490 | 3600 | 12 | 29 | PV-80A-01XL | PV-80A-01XL-B | |
| 01 | 1000 V d.c. | 100 | 50 | 870 | 6300 | 13 | 32 | PV-100A-01XL | PV-100A-01XL-B | |
| | | 125 | 50 | 1930 | 13,900 | 16 | 40 | PV-125A-01XL | PV-125A-01XL-B | |
| | | 160 | 50 | 3900 | 28,100 | 18 | 44 | PV-160A-01XL | PV-160A-01XL-B | |
| | | 160 | 33 | 2780 | 21,000 | 18 | 44 | PV-160A-2XL | PV-160A-2XL-B | |
| | | 200 | 33 | 4950 | 37,000 | 20 | 50 | PV-200A-2XL | PV-200A-2XL-B | |
| | | 250 | 33 | 9450 | 70,000 | 24 | 60 | PV-250A-2XL | PV-250A-2XL-B | |
| | | 315 | 33 | 16,600 | 123,000 | 26 | 66 | PV-315A-2XL | PV-315A-2XL-B | |
| 2 | 1000 V d.c. | 355 | 33 | 26,000 | 192,000 | 27 | 68 | PV-355A-2XL | PV-355A-2XL-B | |
| Z | 1000 V u.c. | 160 | 33 | 2780 | 21,000 | 18 | 44 | | PV-160A-2XL-3B1 | |
| | | 200 | 33 | 4950 | 37,000 | 20 | 50 | | PV-200A-2XL-3B1 | |
| | | 250 | 33 | 9450 | 70,000 | 24 | 60 | | PV-250A-2XL-3B1 | |
| | | 315 | 33 | 16,600 | 123,000 | 26 | 66 | | PV-315A-2XL-3B1 | |
| | | 355 | 33 | 26,000 | 192,000 | 27 | 68 | | PV-355A-2XL-3B1 | |
| | 1000 V d.c. | 350 | 50 | 31,000 | 161,200 | 26 | 65 | PV-350A-3L | PV-350A-3L-B | |
| 3 | | 400 | 50 | 44,500 | 231,400 | 33 | 82 | PV-400A-3L | PV-400A-3L-B | |
| 3 | | 500 | 50 | 85,000 | 442,000 | 34 | 85 | PV-500A-3L | PV-500A-3L-B | |
| | | 600 | 50 | 137,000 | 712,400 | 43 | 108 | PV-600A-3L | PV-600A-3L-B | |

¹ PV-*A-2XL-3B and PV-*A-2XL-3B-15 have revised bolting patterns, which are identical to size 3L bolting pattern. This allows utilisation of both size 2XL and size 3L fuse links without changing the dimensional layout of the inverter, combiners and disconnects.



PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

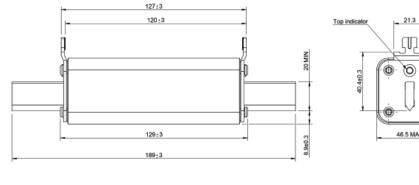
Catalogue numbers - PV-XL fuse links, 1500 V d.c.

| | | Rated current (Amps) | Breaking capacity (IEC/UL) (kA) | l²t (A² Sec) | | Watts loss (W) | | Catalogue numbers | | | |
|------------------------|------------------|----------------------------|--|----------------|---------------------------------|--------------------|----|------------------------------|---------------------------------|--|-------------------------------|
| Fuse link body size | Rated voltage | | | Pre- arcing | Total at 1500 V ¹ | 0.7 l _n | In | Bladed with top indicator | Bladed without top indicator | Bolted version with side indicator | Bolted without side indicator |
| | | 50 | 30 | 175 | 1000 | 10 | 25 | PV-50A-01XL-15 | | PV-50A-01XL-B-15 | |
| | | 63 | 30 | 362 | 2250 | 10 | 26 | PV-63A-01XL-15 | | PV-63A-01XL-B-15 | |
| 01 | 1500 V d.c. | 80 | 30 | 565 | 3300 | 14 | 35 | PV-80A-01XL-15 | | PV-80A-01XL-B-15 | |
| | | 100 | 30 | 1100 | 6600 | 16 | 40 | PV-100A-01XL-15 | | PV-100A-01XL-B-15 | |
| | | 125 | 30 | 2200 | 10,500 | 18 | 44 | PV-125A-01XL-15 | | PV-125A-01XL-B-15 | |
| | | 100 | 30 | 1250 | 6000 | 24 | 43 | PV-100A-1XL-15 | | PV-100A-1XL-B-15 | |
| 1 | 1500 V d.c. | 125 | 30 | 1950 | 9360 | 25 | 52 | PV-125A-1XL-15 | | PV-125A-1XL-B-15 | |
| I | | 160 | 30 | 4200 | 20,160 | 26 | 54 | PV-160A-1XL-15 | | PV-160A-1XL-B-15 | |
| | | 200 | 30 | 9400 | 45,120 | 31 | 60 | PV-200A-1XL-15 | | PV-200A-1XL-B-15 | |
| | | 125 | 30 | 2200 | 15,000 | 18 | 44 | PV-125A-2XL-15 | PV-125A-2XL-U-15 | PV-125A-2XL-B-15 | PV-125A-2XL-BU-15 |
| | | 160 | 30 | 5000 | 32,000 | 19 | 48 | PV-160A-2XL-15 | PV-160A-2XL-U-15 | PV-160A-2XL-B-15 | PV-160A-2XL-BU-15 |
| | | 200 | 30 | 8800 | 51,000 | 23 | 57 | PV-200A-2XL-15 | PV-200A-2XL-U-15 | PV-200A-2XL-B-15 | PV-200A-2XL-BU-15 |
| 2 | 1500 V d.c. | 250 | 30 | 16,600 | 85,000 | 28 | 70 | PV-250A-2XL-15 | PV-250A-2XL-U-15 | PV-250A-2XL-B-15 | PV-250A-2XL-BU-15 |
| Z | | 125 | 30 | 2200 | 15,000 | 18 | 44 | | | PV-125A-2XL-3B-151 | PV-125A-2XL-3BU-151 |
| | | 160 | 30 | 5000 | 32,000 | 19 | 48 | | | PV-160A-2XL-3B-151 | PV-160A-2XL-3BU-151 |
| | | 200 | 30 | 8800 | 51,000 | 23 | 57 | | | PV-200A-2XL-3B-151 | PV-200A-2XL-3BU-151 |
| | | 250 | 30 | 16,600 | 85,000 | 28 | 70 | | | PV-250A-2XL-3B-151 | PV-250A-2XL-3BU-151 |
| | | 250 | 100 ² | 74,000 | 263,000 | 20 | 49 | PV-250A-3L-15 | PV-250A-3L-U-15 | PV-250A-3L-B-15 | PV-250A-3L-BU-15 |
| | | 315 | 100 ² | 150,000 | 533,000 | 21 | 52 | PV-315A-3L-15 | PV-315A-3L-U-15 | PV-315A-3L-B-15 | PV-315A-3L-BU-15 |
| | | 350 | 100 ² | 195,000 | 693,000 | 24 | 59 | PV-350A-3L-15 | PV-350A-3L-U-15 | PV-350A-3L-B-15 | PV-350A-3L-BU-15 |
| 3 | 1500 V d.c. | 355 | 100 ² | 195,000 | 693,000 | 24 | 59 | PV-355A-3L-15 | PV-355A-3L-U-15 | PV-355A-3L-B-15 | PV-355A-3L-BU-15 |
| | | 400 | 100 ² | 296,000 | 1,060,000 | 24 | 61 | PV-400A-3L-15 | PV-400A-3L-U-15 | PV-400A-3L-B-15 | PV-400A-3L-BU-15 |
| | | 450 | 100 ² | 412,000 | 1,470,000 | 27 | 67 | PV-450A-3L-15 | PV-450A-3L-U-15 | PV-450A-3L-B-15 | PV-450A-3L-BU-15 |
| | | 500 | 100 ² | 532,000 | 1,890,000 | 29 | 73 | PV-500A-3L-15 | PV-500A-3L-U-15 | PV-500A-3L-B-15 | PV-500A-3L-BU-15 |

¹ PV-*A-2XL-3B and PV-*A-2XL-3B-15 have revised bolting patterns, which are identical to size 3L bolting pattern. This allows utilisation of both size 2XL and size 3L fuse links without changing the dimensional layout of the inverter, combiners and disconnects.

² 100 kA at time constant 6 mS.

Dimensions (mm) - Size 01, bladed



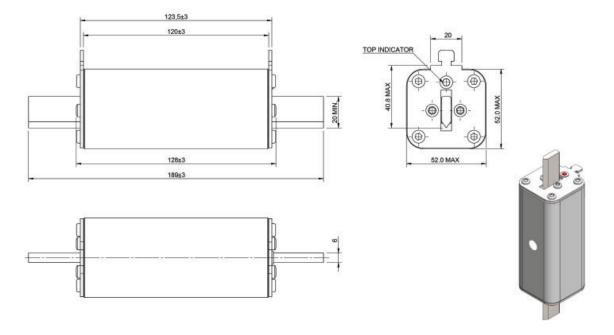


ጥ 6 Ŵ Ē 46.5 MAX



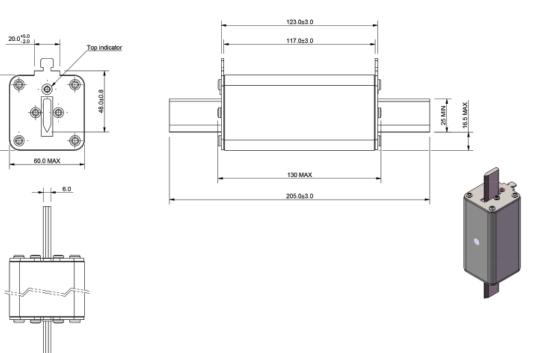
PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Dimensions (mm) - Size 1, bladed

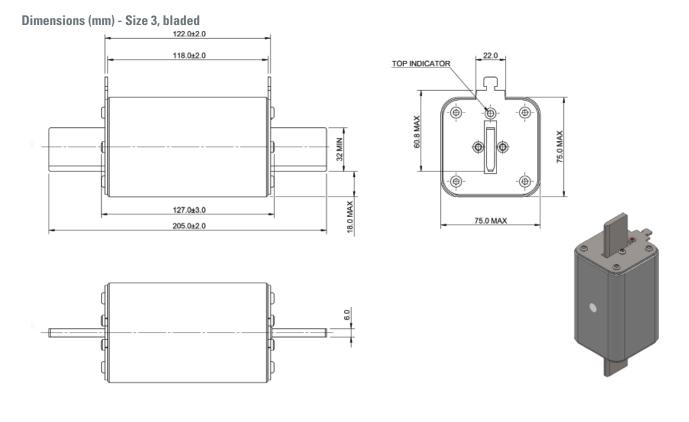


Dimensions (mm) - Size 2, bladed

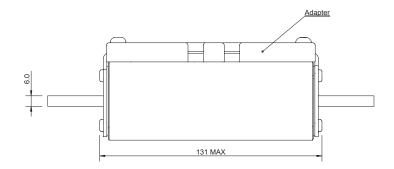
61.0 MAX

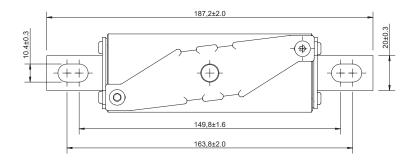


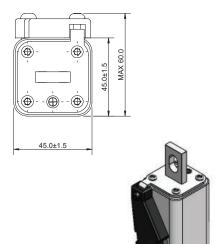
PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A



Dimensions (mm) - Size 01, bolted

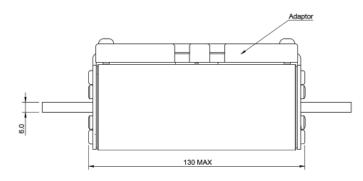


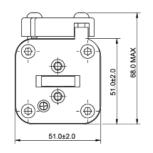




PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Dimensions (mm) - Size 1, bolted

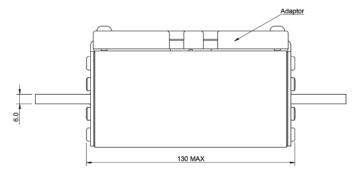


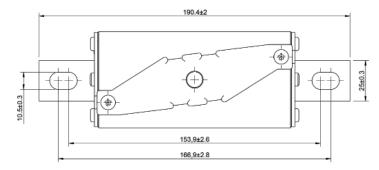


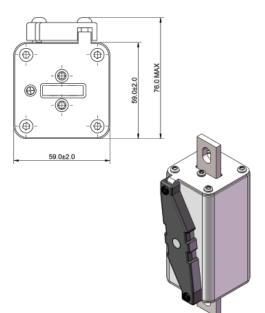


FUSE 1X2 PV GOLTED

Dimensions (mm) - Size 2, bolted

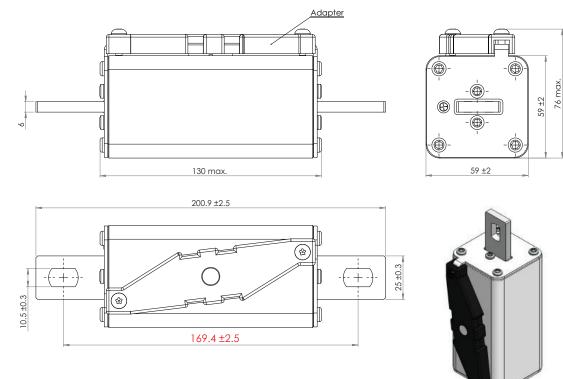






PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Dimensions (mm) - Size 2XL-3B, bolted

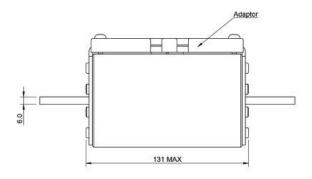


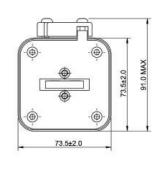
PV-*A-2XL-3B and PV-*A-2XL-3B-15 have revised bolting patterns, which are identical to size 3L bolting pattern. This allows utilisation of both size 2XL and size 3L fuse links without changing the dimensional layout of the inverter, combiners and disconnects.

Mounting dimensions comparison

| 2XL-3B | 3L |
|--------|-------|
| 169.4 | 170.8 |

Dimensions (mm) - Size 3, bolted

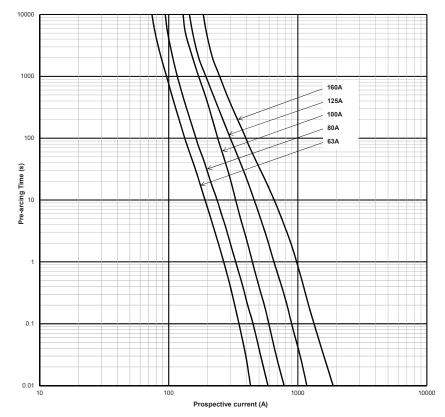




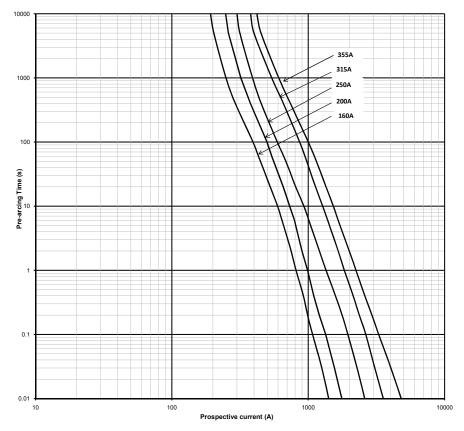


PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Time-current curve - Size 01XL, bladed and bolted, 1000 V d.c., 63 A to 160 A

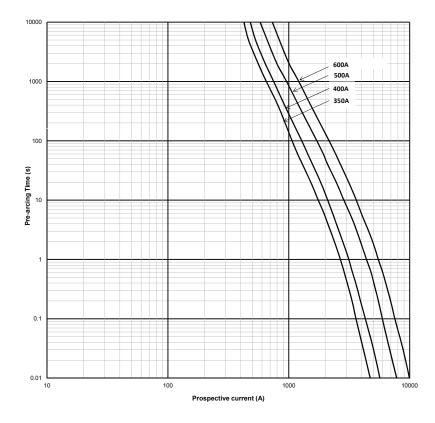


Time-current curve - Size 2XL, bladed and bolted, 1000 V d.c., 160 A to 355 A

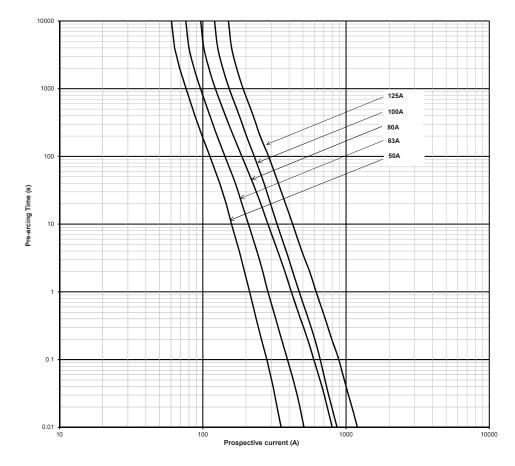


PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Time-current curve - Size 3L, bladed and bolted, 1000 V d.c., 350 A to 600 A

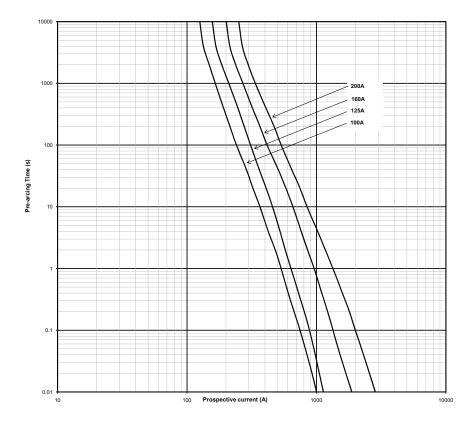


Time-current curve - Size 01XL, bladed and bolted, 1500 V d.c., 50 A to 125 A

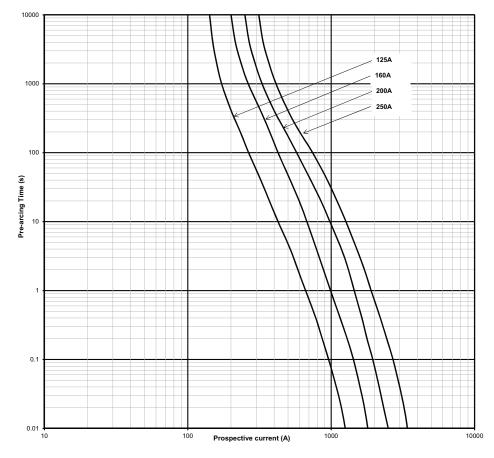


PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Time-current curve - Size 1XL, bladed and bolted, 1500 V d.c., 100 A to 200 A

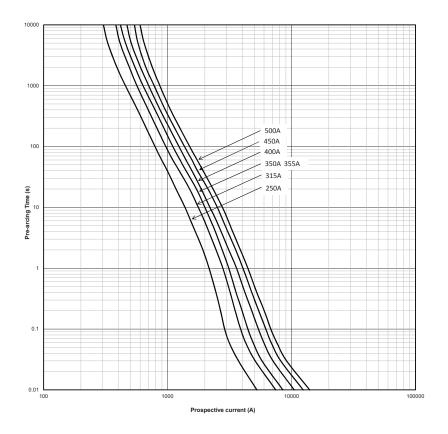


Time-current curve - Size 2XL, bladed and bolted, 1500 V d.c., 125 A to 250 A

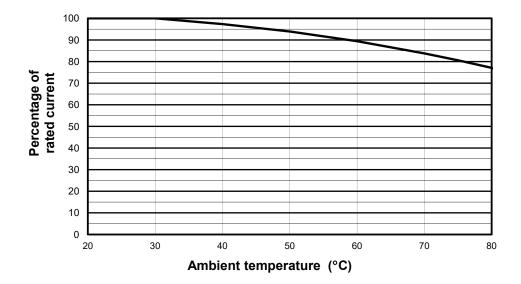


PV-XL - XL Style - 1000-1500 V d.c. (IEC/UL), 50 A to 600 A

Time-current curve - Size 3L, bladed and bolted, 1500 V d.c., 250 A to 500 A



Temperature derating curve



PVS-3L - 3L Style, 1500 V d.c. (IEC/UL), 250 A to 400 A

Specifications

Description

Eaton's Bussmann® series PVS 3L fuse links are specifically designed to protect and isolate photovoltaic array combiners and disconnects.These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

Technical data

- Rated voltage: 1500 V d.c.
- Rated current: 250 A to 400 A
- Breaking capacity: 100 kA
- Operating class: gPV and UL PV fuse links

Compatible fuse base

SD3L-S-PV for bladed fuse links only

Microswitches

- For bladed fuse links with top indicator
 - 170H0236 or 170H0238
- For bolted fuse links with side indicator
 - 170H0069

Standards / Agency information

IEC 60269-6, UL Recognised file 2579 E335324, RoHS compliant

Catalogue numbers - PVS-XL fuse links, 1500 V d.c. Bladed version

| | | | Breaking | l²t (A² Sec) | | Watts Io (W) | SS | Catalogue number | S |
|------------------------|---------------|-------------------------|------------------|--------------|-------------------------|--------------------|----|------------------------------|---------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | capacity (kA) | Pre-arcing | Total at 1000 V d.c. | 0.7 l _n | In | Bladed with top indicator | Bladed without top indicator |
| | | 250 | 100 | 90,000 | 350,000 | 24 | 43 | PVS250A-3L-15 | PVS250A-3L-U-15 |
| | | 315 | 100 | 175,000 | 460,000 | 22 | 55 | PVS315A-3L-15 | PVS315A-3L-U-15 |
| 3 | 1500 V d.c. | 350 | 100 | 250,000 | 970,000 | 23 | 57 | PVS350A-3L-15 | PVS350A-3L-U-15 |
| | | 355 | 100 | 250,000 | 970,000 | 23 | 59 | PVS355A-3L-15 | PVS355A-3L-U-15 |
| | | 400 | 100 | 315,000 | 1,100,000 | 27 | 71 | PVS400A-3L-15 | PVS400A-3L-U-15 |

Catalogue numbers - PVS-XL fuse links, 1500 V d.c. Bolted version

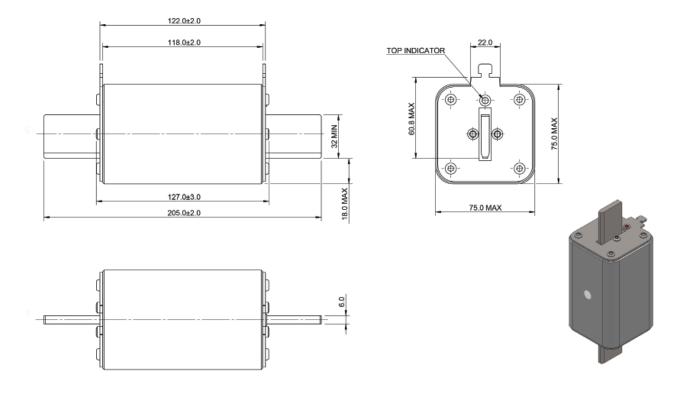
| | | | Breaking | l²t (A² Sec) | | Watts Io (W) | DSS | Catalogue numbers | 5 |
|------------------------|---------------|-------------------------|------------------|--------------|-------------------------|--------------------|-----|-------------------------------|-------------------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | capacity (kA) | Pre-arcing | Total at 1000 V d.c. | 0.7 l _n | In | Bolted with side indicator | Bolted without side indicator |
| | | 250 | 100 | 90,000 | 350,000 | 16 | 42 | PVS250A-3L-B-15 | PVS250A-3L-BU-15 |
| | | 315 | 100 | 175,000 | 460,000 | 21 | 52 | PVS315A-3L-B-15 | PVS315A-3L-BU-15 |
| 3 | 1500 V d.c. | 350 | 100 | 250,000 | 970,000 | 21 | 54 | PVS350A-3L-B-15 | PVS350A-3L-BU-15 |
| | | 355 | 100 | 250,000 | 970,000 | 22 | 57 | PVS355A-3L-B-15 | PVS355A-3L-BU-15 |
| | | 400 | 100 | 315,000 | 1,100,000 | 25 | 66 | PVS400A-3L-B-15 | PVS400A-3L-BU-15 |



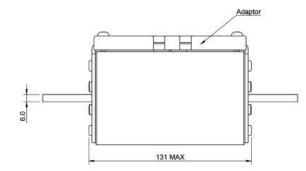
Bolted without side indicator

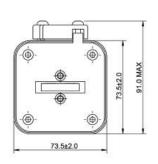
PVS-3L - 3L Style, 1500 V d.c. (IEC/UL), 250 A to 400 A

Dimensions (mm) - Size 3L Bladed with and without top indicator

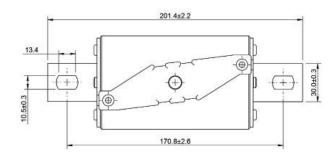


Dimensions (mm) - Size 3L Bolted with side indicator





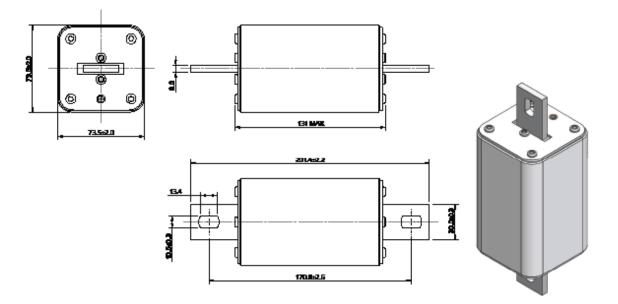




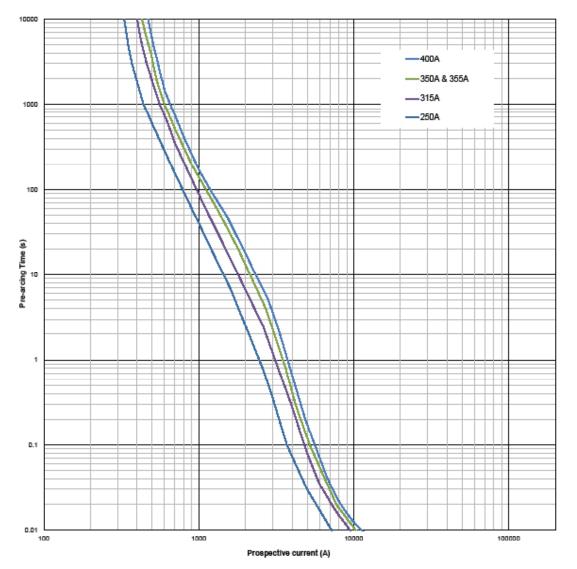
Data sheet: TD135020EN

PVS-3L - 3L Style, 1500 V d.c. (IEC/UL), 250 A to 400 A

Dimensions (mm) - Size 3L Bolted without side indicator



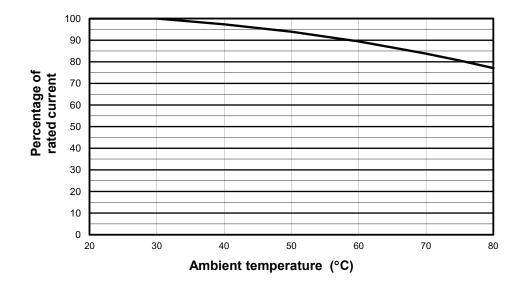
Time-current curve



Data sheet: TD135020EN

PVS-3L - 3L Style, 1500 V d.c. (IEC/UL), 250 A to 400 A

Temperature derating curve



SD-S-PV - XL fuse bases, 1500 V d.c. (IEC), 200 A to 500 A, sizes 1 to 3

Specifications

Description

Sizes 1 to 3 XL Fuse bases specifically designed for use with the Bussmann series range of XL PV (Photovoltaic) fuse links.

Technical data

- Rated voltage: 1500 V d.c. (IEC)
- Rated current: 200 A, 400 A and 630 A
- Fuse base size: 1 to 3
- Compatible fuse links: PV XL

Standards / Agency information

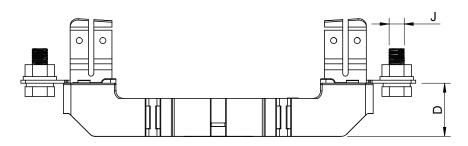
- IEC 60269-1
- UL Listed (file number E348242)

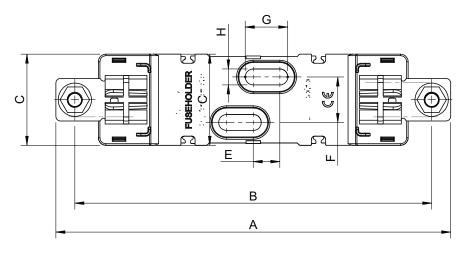
Accessories:

Fuse extraction handle available in sizes 01XL to 3L Part numbers: FEH1500B Unit packing: 1

Dimensions (mm)







| Catalogue numbers | XL Style fuse link size | Maximum fuse rated current (Amps) | Power acceptance | A | В | C | D | E | F | G | H | J |
|----------------------|-------------------------------|---|---------------------|-----|-----|----|----|------|----|----|------|-----|
| SD1XL-S-PV | 01XL, 1XL | 200 | 57W | 260 | 235 | 60 | 35 | 17.5 | 30 | 28 | 10.5 | M10 |
| SD2XL-S-PV | 2XL | 400 | 75W | 285 | 260 | 60 | 35 | 17.5 | 30 | 28 | 10.5 | M12 |
| SD3L-S-PV | 3L | 500 | 108W | 300 | 270 | 60 | 35 | 17.5 | 30 | 28 | 10.5 | M12 |

Battery storage fuse links

BSF-NH - NH Style, 1000 V d.c. (IEC/UL), 63 A to 400 A

Specifications

Description

Eaton's Bussmann series NH battery storage fuses are specifically designed to protect and isolate battery array combiners and disconnects. These fuse links are capable of interrupting low overcurrents associated with faulted battery storage systems (reverse current, multi-array fault).

Technical data

- Rated voltage: 1000 V d.c.
- Rated current: 63 A to 400 A
- Operating class: gBat proposed for full range fuse links for protection of battery storage systems
- Breaking capacity: 100 kA
- Time constant: 4.5 ms at 100 kA

Microswitches

- · For bladed fuse links only
 - 170H0236
 - 170H0238

Fuse holders

- For bladed fuse links only
 - SD1-D-PV
 - SD2-D-PV
 - SD3-D-PV

Standards / Agency information

IEC 60269-7 for battery storage fuse links is under preparation.

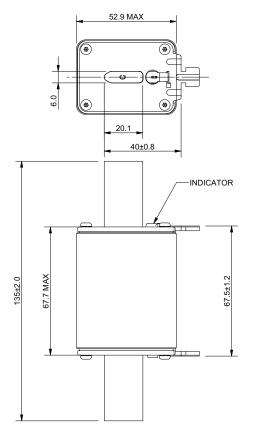
Catalogue numbers

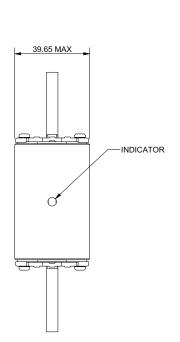
| | | | I²t (A² Sec) | | Watts Io (W) | DSS | Catalogue numbers | |
|------------------------|---------------|-------------------------|--------------|-------------------------|--------------------|------|----------------------|------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1000 V d.c. | 0.7 I _n | In | Bladed version | Bolted version |
| | | 63 | 470 | 4300 | 5 | 12 | BSF-063G-NH110 | BSF-063G-NH110-B |
| | | 80 | 640 | 5760 | 6 | 15.5 | BSF-080G-NH110 | BSF-080G-NH110-B |
| 1 | 1000 V d.c. | 100 | 1300 | 11,700 | 7 | 16.5 | BSF-100G-NH110 | BSF-100G-NH110-B |
| I | 1000 V u.c. | 125 | 2600 | 23,400 | 7 | 17.5 | BSF-125G-NH110 | BSF-125G-NH110-B |
| | | 160 | 5200 | 46,800 | 11 | 27.5 | BSF-160G-NH110 | BSF-160G-NH110-B |
| | | 200 | 10,200 | 82,000 | 10 | 25 | BSF-200G-NH110 | BSF-200G-NH110-B |
| | | 160 | 4600 | 37,000 | 11 | 28 | BSF-160G-NH210 | BSF-160G-NH210-B |
| 2 | 1000 V d.c. | 200 | 9500 | 76,000 | 13 | 32 | BSF-200G-NH210 | BSF-200G-NH210-B |
| | | 250 | 17,000 | 136,000 | 15 | 38 | BSF-250G-NH210 | BSF-250G-NH210-B |
| | | 315 | 32,000 | 260,000 | 18 | 44 | BSF-315G-NH310 | BSF-315G-NH310-B |
| 3 | 1000 V d.c. | 355 | 44,500 | 370,000 | 18 | 46 | BSF-355G-NH310 | BSF-355G-NH310-B |
| | | 400 | 67,500 | 550,000 | 20 | 50 | BSF-400G-NH310 | BSF-400G-NH310-B |



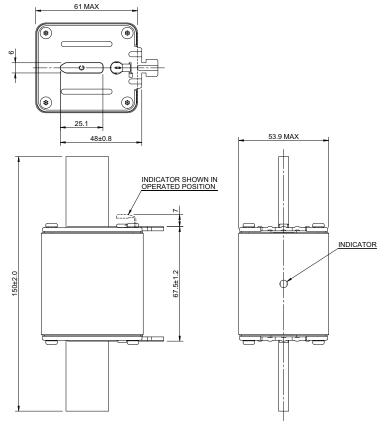
BSF-NH - NH Style, 1000 V d.c. (IEC/UL), 63 A to 400 A

Dimensions (mm) - Size 1, bladed





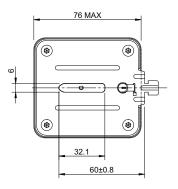
Dimensions (mm) - Size 2, bladed

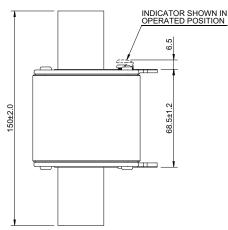


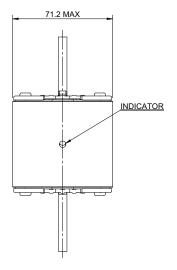
Battery storage fuse links

BSF-NH - NH Style, 1000 V d.c. (IEC/UL), 63 A to 400 A

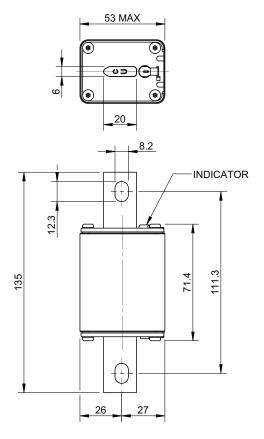
Dimensions (mm) - Size 3, bladed

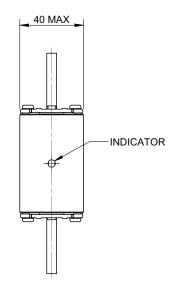






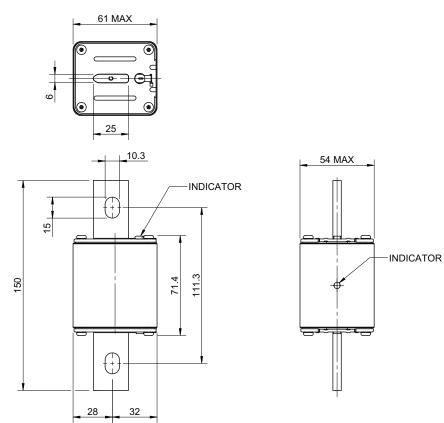
Dimensions (mm) - Size 1, bolted



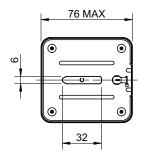


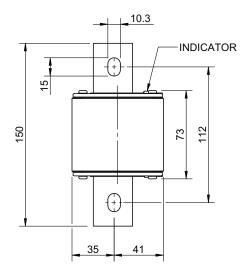
BSF-NH - NH Style, 1000 V d.c. (IEC/UL), 63 A to 400 A

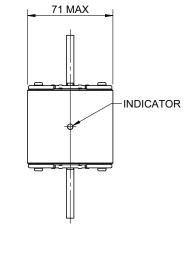
Dimensions (mm)- Size 2, bolted



Dimensions (mm) - Size 3, bolted



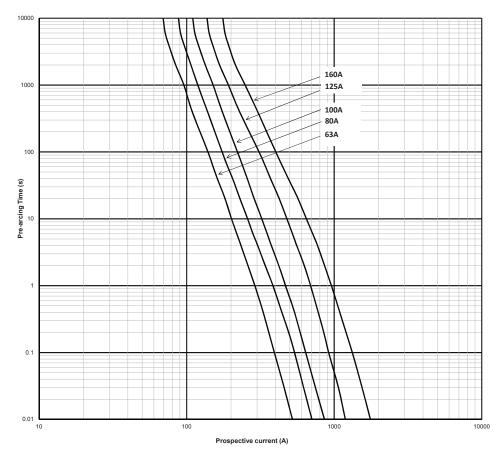




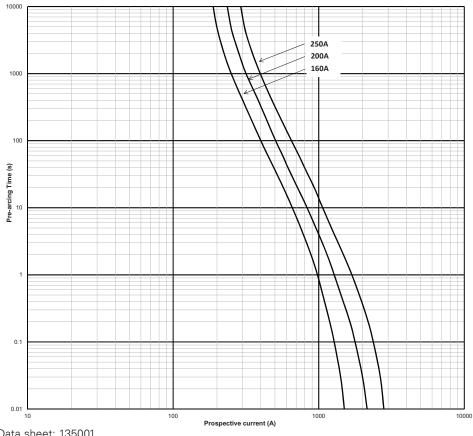
Battery storage fuse links

BSF-NH - NH Style, 1000 V d.c. (IEC/UL), 63 A to 400 A

Time-current curve - Size 1, 63 A to 200 A

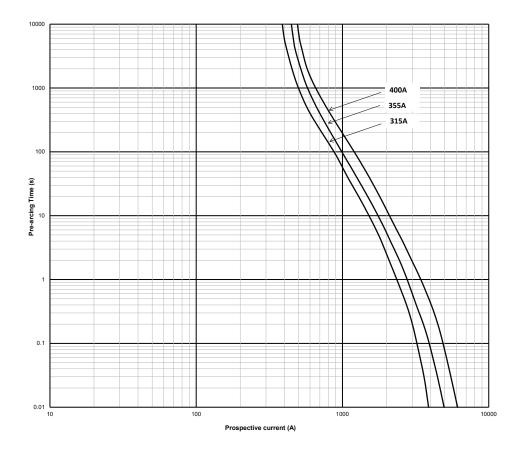


Time-current curve - Size 2, 160 A to 250 A

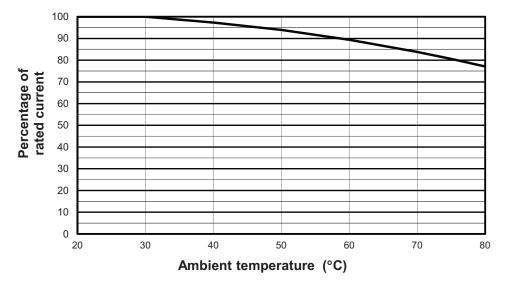


BSF-NH - NH Style, 1000 V d.c. (IEC/UL), 63 A to 400 A

Time-current curve - Size 3, 315 A to 400 A



Temperature derating



(The ambient temperature is that local to the fuse link)

Battery storage fuse links

BSF-3XL - XL Style, 1500 V d.c. (IEC/UL), 250 A to 500 A

Specifications

Description

Eaton's Bussmann series XL battery storage fuses are specifically designed to protect and isolate battery array combiners and disconnects. These fuse links are capable of interrupting low overcurrents associated with faulted battery storage systems (reverse current, multi-array fault).

Technical data

- Rated voltage: 1500 V d.c.
- Rated current: 250 A to 500 A
- Operating class: gBat proposed for full range fuse links for protection of battery storage systems
- Breaking capacity: 100 kA
- Time constant: 4.5 ms at 100 kA

Microswitches

- For bladed fuse links
- 170H0236
- 170H0238
- For bolted fuse links
 - 170H0069

Compatible fuse bases

• SD3L-S-PV

Standards / Agency information

IEC 60269-7 for battery storage fuse links is under preparation.

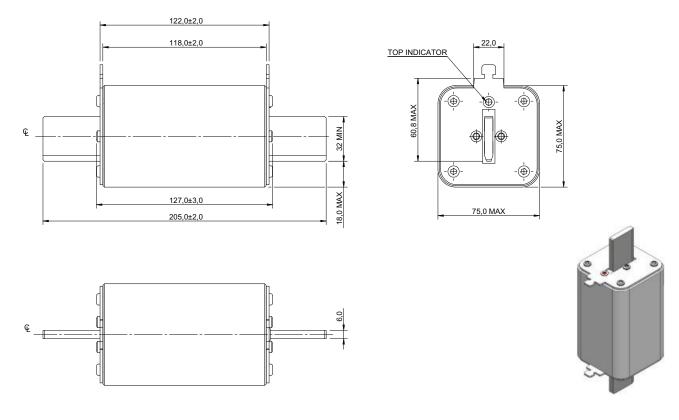
Catalogue numbers

| | | | l²t (A² Sec) | | Watts Io (W) | DSS | Catalogue numbers | |
|------------------------|---------------|-------------------------|--------------|-------------------------|--------------------|-----|----------------------|------------------|
| Fuse link body size | Rated voltage | Rated current (Amps) | Pre-arcing | Total at 1500 V d.c. | 0.7 l _n | In | Bladed version | Bolted version |
| | | 250 | 74,000 | 263,000 | 20 | 49 | BSF-250G-3XL15 | BSF-250G-3XL15-B |
| | | 315 | 150,000 | 533,000 | 21 | 52 | BSF-315G-3XL15 | BSF-315G-3XL15-B |
| 3 | 1500 V d.c. | 355 | 195,000 | 693,000 | 24 | 59 | BSF-355G-3XL15 | BSF-355G-3XL15-B |
| 3 | 1500 v u.c. | 400 | 296,000 | 1,060,000 | 24 | 61 | BSF-400G-3XL15 | BSF-400G-3XL15-B |
| | | 450 | 412,000 | 1,470,000 | 27 | 67 | BSF-450G-3XL15 | BSF-450G-3XL15-B |
| | | 500 | 532,000 | 1,890,000 | 29 | 73 | BSF-500G-3XL15 | BSF-500G-3XL15-B |

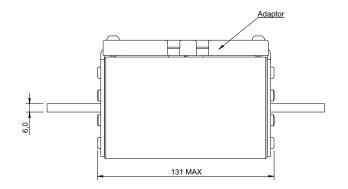


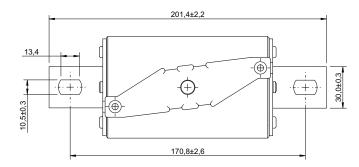
BSF-3XL - XL Style, 1500 V d.c. (IEC/UL), 250 A to 500 A

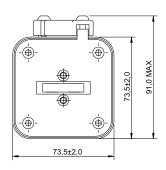
Dimensions (mm) - Size 3, bladed



Dimensions (mm) - Size 3, bolted





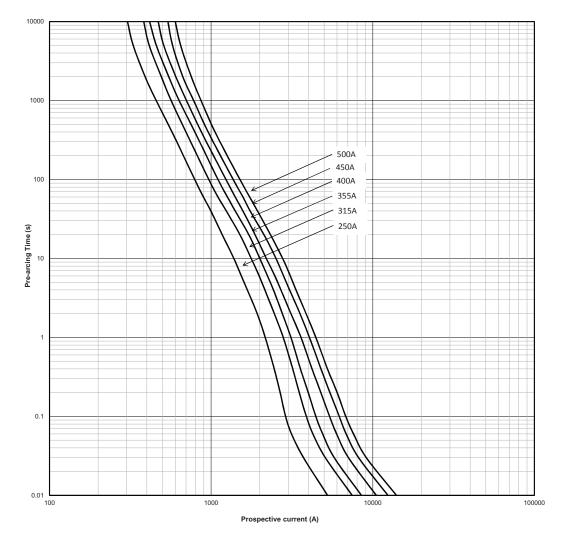




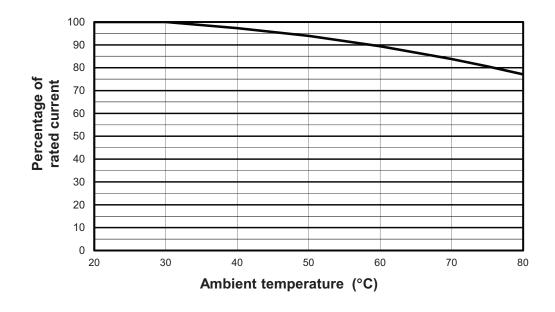
Battery storage fuse links

BSF-3XL - XL Style, 1500 V d.c. (IEC/UL), 250 A to 500 A

Time-current curve - Size 3, 250 A to 500 A







Data sheet: 135002

382

Modular style fuse bases for North American, British and square body fuse links

Description

Eaton's Bussmann series offers a comprehensive line of fuse bases that provide the user with design and manufacturing flexibility. Two identical half bases make up a Bussmann series modular fuse base. These 'split' units can be panel mounted any distance apart to accomodate any length fuse.

1 - Stud type

The simpler design is the C5268 modular fuse base. With this design, the fuse terminal and cable (with termination) are mounted on the same stud, minimizing labor needed for installation. The stud type base is available in the configurations shown in the table below.

| Catalogue numbers | Max fuse amp rating | Stud height (in) | Stud dia. & threads |
|----------------------|------------------------|------------------|------------------------|
| C5268-1 | 200 | 1 | 5/16"-18 |
| C5268-2 | 200 | 1.75 | 5/16"-18 |
| C5268-3 | 200 | 0.75 | 5/16"-18 |
| C5268-4 | 100 | 1 | 1/4″-20 |
| C5268-5 | 100 | 1.75 | 1/4"-20 |



Eaton's Bussmann series also offers a modular style fuse base that utilises a tin-plated connector for wire termination and heat dissipation) and a plated-steel stud (for fuse mounting). The connector type fuse base is available in the configurations shown below. Consult Eaton for additional product details.

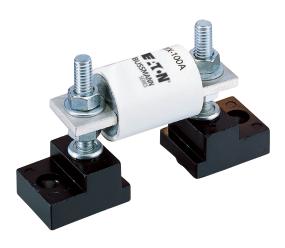
| Catalogue numbers | Max rated voltage | Max fuse Amp rating |
|----------------------|-------------------|---------------------|
| 1BS101 | 600 | 100 |
| 1BS102 | 600 | 400 |
| 1BS103 | 600 | 400 |
| 1BS104 | 600 | 600 |
| | | |

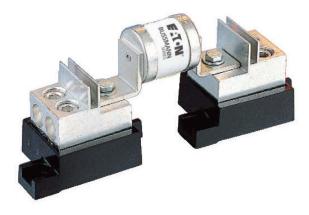


BH fuse blocks provide a wide range of mounting configurations for Bussmann High Speed semi-conductors fuse links. BH fuse blocks have a Short-Circuit rated current rating of any installed fuse up to 200 kA RMS Sym.

Catalogue

| numbers | Max rated voltage | Max fuse Amp rating |
|---------|-------------------|---------------------|
| BH-0 | 700 | 100 |
| BH-1 | 2500 | 400 |
| BH-2 | 5000 | 600 |
| BH-3 | 1250 | 700 |







Data sheets: 1200 (BH-0), 1201 (BH-1), 1202 (BH-2), 1203 (BH-3), 1206 (1BS101), 1207 (1BS102), 1208 (1BS103), 1209 (1BS104)

Fixed center fuse bases for DIN 43653 square body fuse links

Description

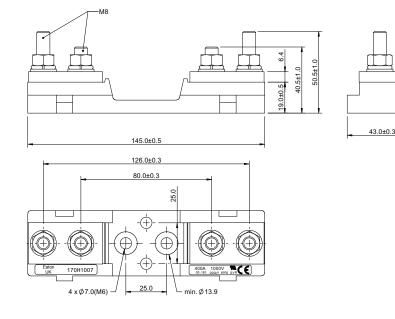
Fuse bases (blocks) to be used with DIN 43653 square body fuse links with centre distances of 80 and 110mm. Available for sizes 000, 00, 1^* , 1, 2 and 3.

Sizes 000 to 00 Fuse bases

| Catalogue numbers | Max rated voltage (Volts) | Max fuse Amp rating (Amps) | Centre distance (mm) | Fuse sizes |
|----------------------|---------------------------------|----------------------------------|----------------------------|------------|
| 170H1007 | 1000 | 400 | 80 | 00, 000 |
| 170H1013 | 690 | 200 | 80 | 0000, 000 |

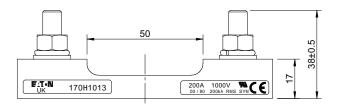


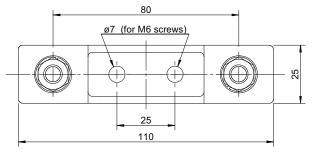
Dimensions (mm) - 170H1007





Dimensions (mm) - 170H1013





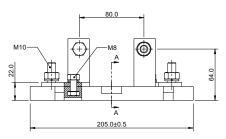


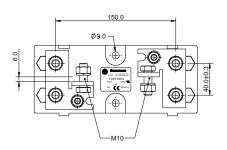
Fixed center fuse bases for DIN 43653 square body fuse links

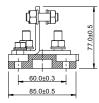
Sizes 1* to 3

| Catalogue numbers | Max rated voltage (Volts) | Max fuse Amp rating (Amps) | Centre distance (mm) |
|----------------------|------------------------------|-------------------------------|-------------------------|
| 170H3003 | 1000 V a.c./V d.c. | 630 | 80 |
| 170H3004 | 1000 V a.c./V d.c. | 1250 | 80 |
| 170H3005 | 1400 V a.c./V d.c. | 630 | 110 |
| 170H3006 | 1400 V a.c./V d.c. | 1250 | 110 |

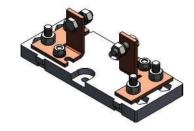
Dimensions (mm) - 170H3003



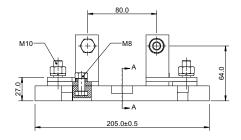


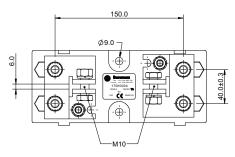


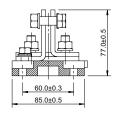
SECTION A-A



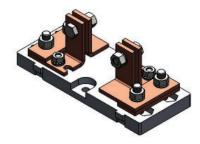
Dimensions (mm) - 170H3004





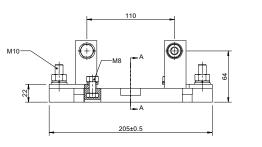


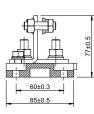
SECTION A-A



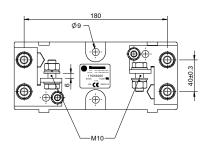
Fixed center fuse bases for DIN 43653 square body fuse links

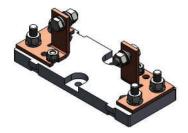
Dimensions (mm) - 170H3005



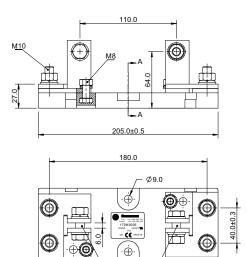


SECTION A-A

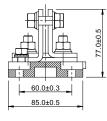




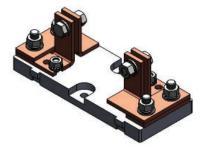
Dimensions (mm) - 170H3006



M10



SECTION A-A



Fuse links with higher current ratings than 1250 A can be used with 170H3004 or 170H3006 if the maximum load current is derated according to the table below.

| Fuse amp rating | Max. Amp load in fuse base |
|-----------------|-------------------------------|
| 1400 | 1325 |
| 1500 | 1400 |
| 1600 | 1500 |
| 1800 | 1650 |
| 2000 | 1800 |

BMM - Fuse bases for ferrule fuse links, 600 V a.c. (UL), 30 A

Specifications

Description

Modular, open-style fuse blocks for cylindrical industrial fuse links. Versatile 35mm DIN rail or screw-to-panel mounting.

Technical data

- Rated voltage: 600 V a.c. (UL)
- Rated current:
 - 30 A (box lug terminal)
 - 20 A (with quick connector terminal)
- Compatible fuse links:
 - FWA-A10F
 - FWC-A10F
 - PVM
 - PV-A10F

Standards / Agency information

- UL Recognised E14853-IZLT2
- CSA Certified 47235-6225-01
- CE
- RoHS compliant
- Conflict mineral free
- Reach declaration available upon request

Catalogue numbers

Terminal type

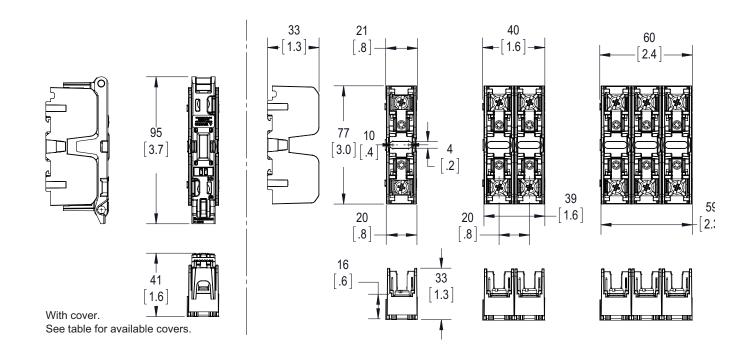
| Screw w/quick connect ¹ | Pressure plate w/quick connect ¹ | Box lug | Fuse link size | Number of poles |
|------------------------------------|---|-----------|---------------------------|-----------------|
| BMM603-1SQ | BMM603-1PQ | BMM603-1C | 10 x 38 (13/32" x 1-1/2") | 1 |
| BMM603-2SQ | BMM603-2PQ | BMM603-2C | 10 x 38 (13/32" x 1-1/2") | 2 |
| BMM603-3SQ | BMM603-3PQ | BMM603-3C | 10 x 38 (13/32" x 1-1/2") | 3 |

¹ Quick connect terminals rated for 20 A maximum.



BMM - Fuse bases for ferrule fuse links, 600 V a.c. (UL), 30 A

Dimensions mm (in)



Recommended covers

| | Cover part numbers | |
|-----------------------------------|--------------------|----------------|
| Terminal type | Indicating | Non indicating |
| Box lug (CR) | CVRI-CCM | CVR-CCM |
| Screw/quick connect (SQ) | CVRI-CCM-QC | CVR-CCM-QC |
| Pressure plate/quick connect (PQ) | CVRI-CCM-QC | CVR-CCM-QC |



BMM603-3C with CVRI-CCM covers and TM27CB marker labels

JM70100 - Fuse bases for ferrule fuse links, 700 V a.c. (UL), 100 A

Specifications

Description

Modular, open-style fuse blocks for cylindrical industrial fuse links. Versatile 35mm DIN rail or screw-to-panel mounting.

Technical data

- Rated voltage: 700 V a.c. (UL)
- Rated current: 100 A
- Compatible fuse links: FWP-A22F(I)

Standards / Agency information

UL Recognised, Guide IZTL2, File 14853.

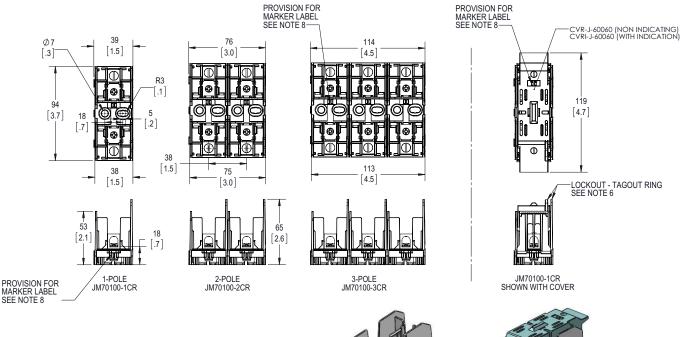
Catalogue numbers

Terminal type

| Box lug with retaining clip | Fuse link size | Number of poles |
|-----------------------------|----------------|-----------------|
| JM70100-1CR | | 1 |
| JM70100-2CR | 22 x 58 mm | 2 |
| JM70100-3CR | | 3 |

Dimensions mm (in)







3D VIEW FOR JM70100-1CR SCALE NONE

3D VIEW FOR JM70100-1CR

WITH COVER SCALE NONE

JM60 - Modular knifeblade fuse blocks, 600 V a.c. (UL), 70 A to 600 A

Specifications

Description

Industry's first modular fuse block simplifies design and enhances safety.

Technical data

- Rated voltage: 600V a.c. (UL)
- Rated current: see table below
- Compatible fuse links: DFJ

Standards / Agency information

Blocks

- UL Listed cULus E14853 IZLT & IZLT7
- CSA Certified 47235-6225-01

Covers

- UL Listed UL E58836 JDVS2
- CSA Certified 47235-6225-01

| Catalogue numbers | | | _ | Rated | | Compatible |
|-------------------|-------------------------------|----------------------------|---------------------------------|---------|--------------------|-------------------------------|
| Class J Block | Covers without indication* | Covers with indication* | Rated current voltage (Amps) | | Number of poles | Bussmann series fuse links |
| JM60100-1CR | _ | | | | 1 | _ |
| JM60100-2CR | CVR-J-60100 | CVRI-J-60100 | 600 V a.c. | 70-100 | 2 | _ |
| JM60100-3CR | _ | | | | 3 | _ |
| JM60200-1CR | _ | | | | 1 | _ |
| JM60200-2CR | CVR-J-60200 | CVRI-J-60200 | 600 V a.c. | 110-200 | 2 | _ |
| JM60200-3CR | | | | | 3 | |
| JM60400-1CR | _ | | | | 1 | - DFJ - |
| JM60400-2CR | CVR-J-60400-M | CVRI-J-60400-M | 600 V a.c. | 225-400 | 2 | _ |
| JM60400-3CR | | | | | 3 | |
| JM60600-1CR | | | | | 1 | _ |
| JM60600-2CR | CVR-J-60600 | CVRI-J-60600 | 600 V a.c. | 450-600 | 2 | _ |
| JM60600-3CR | _ | | | | 3 | - |

* Covers sold separately. Blown fuse indication requires 90 volts minimum and closed circuit to operate.

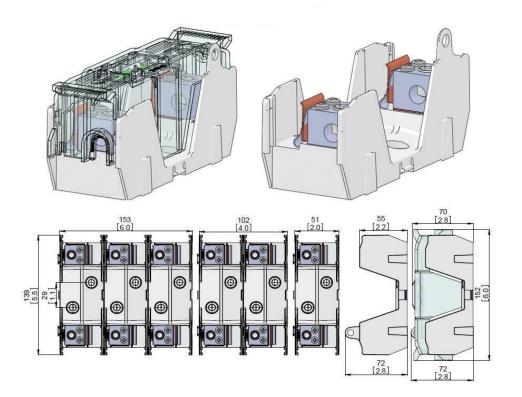
Wire range and torque values

| Catalogue numbers Class J Block | Wire range (solid and stranded) | Wire range (fine stranded) | Torque N∙m (Lb-in) | |
|---|--|----------------------------------|--|--|
| JM60100-1CR | 1/0-3 AWG: (2) Cu 4-6 AWG | 1.0.000 | 6.2 (55) | |
| JM60100-2CR | 4-6 AWG; (2) Cu 8 AWG 8 AWG; (2) Cu 10-14 AWG | 4-6 AWG | 5.1 (45) | |
| JM60100-3CR | Cu 10-14 AWG; AI 10-12 AWG | 8 AVVG | 4.0 (35) | |
| JM60200-1CR | | | / | |
| JM60200-2CR | | | | |
| JM60200-3CR | = | 20/410 | | |
| JM60400-1CR | _ 600kcmil | | 57 (500) | |
| JM60400-2CR | 500kcmil-4 AWG (2) Cu 3/0 - 4 AWG | N/A | 51 (450) 57 (500) | |
| JM60400-3CR | (2) AI 3/0 - 4 AWG | | 34 (300) | |
| JM60600-1CR | | NI/A | E1 (/EO) | |
| JM60600-2CR | - (2) 500kcmm-4 AVVG | IN/A | 01 (400) | |
| JM60100-2CR JM60100-3CR JM60200-1CR JM60200-2CR JM60200-3CR JM60400-1CR JM60400-2CR JM60400-3CR JM60600-1CR | 8 AWG; (2) Cu 10-14 AWG Cu 10-14 AWG; AI 10-12 AWG 250 MCM -1 AWG 2-6 AWG; (2) Cu 2-6 AWG 600kcmil 500kcmil-4 AWG (2) Cu 3/0 - 4 AWG | 8 AWG 3/0-1 AWG 2-6 AWG | 5.6 (50) 5.1 (45) 4.5 (40) 4.0 (35) 42 (375) 31 (275) 57 (500) 51 (450) 57 (500) | |

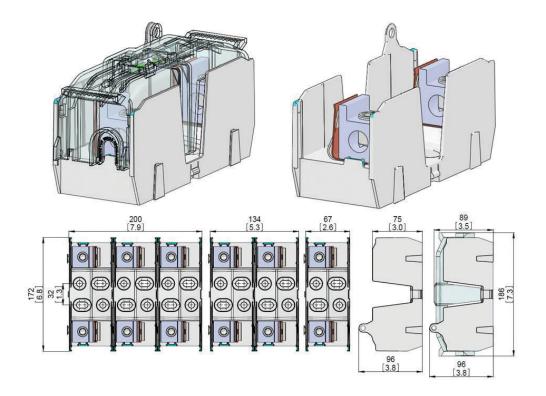


JM60 - Modular knifeblade fuse blocks, 600 V a.c. (UL), 70 A to 600 A

Dimensions mm (in) - 100 A

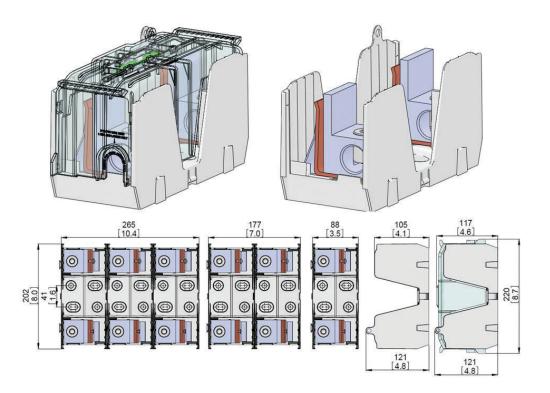


Dimensions mm (in) - 200 A

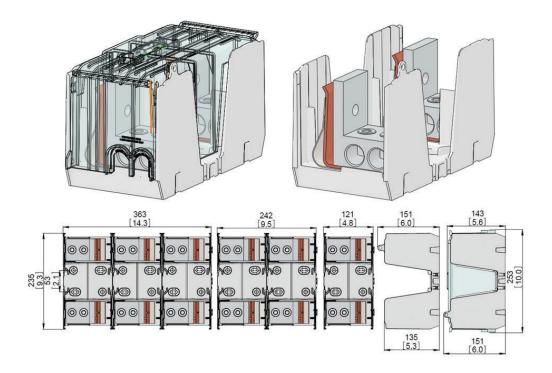


JM60 - Modular knifeblade fuse blocks, 600 V a.c. (UL), 70 A to 600 A

Dimensions mm (in) - 400 A



Dimensions mm (in) - 600 A



CHM - Modular fuse holders for 10 x 38 mm fuse links

Specifications

Description

Compact DIN-Rail mounting fuse holders for 10 \times 38 mm cylindrical fuse links

Technical data

See table page 384

Catalogue numbers

| Catalogue number | Number of poles | Description |
|---------------------|--------------------|--|
| Modular fuse | holders fo | r IEC industrial applications (Red) |
| Neutral only | | |
| CHM1DNXU | 1 | Neutral fuse holder |
| Fuse holder o | only | |
| CHM1DU | 1 | 1-pole modular fuse holder |
| CHM2DU | 2 | 2-pole modular fuse holder |
| CHM3DU | 3 | 3-pole modular fuse holder |
| CHM4DU | 4 | 4-pole modular fuse holder |
| Fuse holder a | nd neutral | |
| CHM1DNU | 2 | 1-pole + neutral modular fuse holder |
| CHM3DNU | 4 | 3-pole + neutral modular fuse holder |
| Fuse holder v | vith neon in | ndicator |
| CHM1DIU | 1 | 1-pole modular fuse holder with neon indicator |
| CHM2DIU | 2 | 2-pole modular fuse holder with neon indicator |
| CHM3DIU | 3 | 3-pole modular fuse holder with neon indicator |
| CHM4DIU | 4 | 4-pole modular fuse holder with neon indicator |
| Fuse holder v | vith neon in | ndicator and neutral |
| CHM1DNIU | 2 | 1-pole + neutral modular fuse holder with neon indicator |
| CHM3DNIU | 4 | 3-pole + neutral modular fuse holder with neon indicator |
| Fuse holder v | vith LED In | dicator |
| CHM1DI-48U | 1 | 1-pole modular fuse holder with LED indicator |
| Modular fuse | holders fo | r photovoltaic applications (Yellow) |
| Fuse holder o | only | |
| CHPV1U | 1 | 1-pole modular fuse holder |
| CHPV2U | 2 | 2-pole modular fuse holder holder |
| Fuse holder v | vith neon in | ndicator |
| CHPV1IU | 1 | 1-pole modular fuse holder with neon indicator |
| CHPV2IU | 2 | 2-pole modular fuse holder with neon indicator |
| Modular fuse | holders fo | r UL Class CC applications (Black) |
| Fuse holder o | only | |
| CHCC1DU | 1 | 1-pole modular fuse holder |
| CHCC2DU | 2 | 2-pole modular fuse holder |
| CHCC3DU | 3 | 3-pole modular fuse holder |
| Fuse holder v | vith neon in | |
| CHCC1DIU | 1 | 1-pole modular fuse holder with neon indicator |
| CHCC2DIU | 2 | 2-pole modular fuse holder with neon indicator |
| CHCC3DIU | 3 | 3-pole modular fuse holder with neon indicator |
| Fuse holder v | vith LED In | |
| CHCC1DI-48U | 1 | 1-pole modular fuse holder with LED indicator |



CHM - Modular fuse holders for 10 x 38 mm fuse links

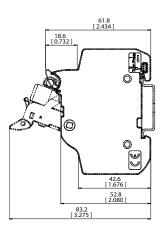
Technical data

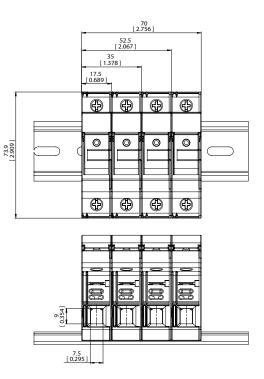
| | Rated volta | age | Rated cu | rrent | _ | Rated breaking | | |
|--|---|-------------|------------|------------|---|-----------------------|--|--|
| Туре | IEC | UL | IEC | UL | Terminal rating | withstand capactiy | Compatible Bussmann series fuse links | |
| Modular fuse | Adular fuse holders for IEC industrial applications (Red) | | | | | | | |
| CHM1 | 690 V a.c. | 600 V a.c. | 32 A | 30 A | IEC 1 to 25 mm ² | IEC 120 kA rms sym | IEC: C10 and FWP-G10F | |
| CHM_DN(X)U | 690 V a.c. | 600 V a.c. | 32 A | 30 A | 70°C PVC Copper cable (solid stranded or | | | |
| | | | | | fine stranded) | UL 200 kA rms sym | UL: FNQ, KLM, FNM, KTK, BAF, FWA, PVM, AGU, | |
| CHM1DI-48U | 48 V d.c. | 48 V d.c. | 32 A | 30 A | Spade lug Comb bus bar | CCC 100 kA rms sym | BAN, FWC | |
| Modular fuse | e holders fo | r Photovolt | aic applic | ations (Ye | llow) | | | |
| CHPV | 1000 V d.c. | 1000 V d.c. | 32 A | 30 A | IEC 1 to 25 mm ² 70°C PVC Copper cable (solid stranded or fine stranded) Spade lug Comb bus bar | 33 kA rms sym | Solar PV range: PVM, PV-A10F | |
| Modular fuse holders for UL Class CC Industrial applications (Black) | | | | | | | | |
| CHCC | N/A | 600 V a.c. | N/A | 30 A | 0 11 7500 10000 0 11 | 000 1 4 | | |
| CHCC1DI-48U | N/A | 48 V d.c. | N/A | 30 A | Cable 75°C and 90°C Cu cable | 200 kA rms sym | LP-CC, FNQ-R, KTK-R | |

Standards / Agency information

| | IEC | UL | CSA | CCC | CE |
|-------------------------|----------------------------|--|-------------------------------------|--------------------------|---------------------------------|
| CHMD(I)U | IEC 60269-1 IEC 60269-2 | UL 4248-1 UL file E14853 | C22.2 No 4248.1 | GB 13539.1 GB 13539.2 | DCB 272 |
| CHMDN(I)U | IEC 60269-1 IEC 60269-2 | UL 4248-1 UL file E14853 | C22.2 No 4248.1 | GB 13539.1 GB 13539.2 | DCB 272 |
| CHM1DI-48U | IEC 60269-1 IEC 60269-2 | UL 4248-1 UL file E14853 | C22.2 No 4248.1 | GB 13539.1 GB 13539.2 | DCB 272 |
| CHM1DNXU | IEC 60269-1 IEC 60269-2 | UL 4248-1 UL file E14853 | C22.2 No 4248.1 | GB 13539.1 GB 13539.2 | DCB 272 |
| CHPV | IEC 60269-1 | UL 4248-1 UL4248-19 UL file E14853 | C22.2 No 4248.1 C22.2 No 4248.19 | GB 13539.1 | DCB 272 |
| CHCC1D(I) to CHCC3D(I)U | N/A | UL 4248-1 UL file E14853 | C22.2 No 4248.1 | N/A | Contact: fusetech@ eaton.com |
| CHCC1DI-48U | N/A | UL 4248-1 UL file E14853 | C22.2 No 4248.1 | N/A | Contact: fusetech@ eaton.com |

Dimensions mm (in)





CH14 - Modular fuse holders for 14 x 51 mm fuse links, 690 V a.c. / 750 and 1500V d.c., 50 A

Specifications

Description

Compact DIN-Rail mount fuse holders for 14 \times 51 mm cylindrical fuse links. Available in different versions with neutral and microswitch.

Technical data

Rated voltage & Rated current: see table page 390

Compatible fuse links

- C14G and C14M14 x 51 mm gG and gM cylindrical fuse links
- FW Ferrule
 - FWH-A14F
 - FWX-A14F
 - FWP-A14F (please consult Eaton's bulehighspeedtechnical@eaton.com if you wish to use a FWP fuse link with a striker option)
 - FWP-G14F
- PV-A14F

Standards / Agency information

IEC 60269-1 and 60269-2



Catalogue numbers

| Catalogue number | Number of poles | Description |
|---------------------|--------------------|--|
| Neutral only | | • |
| CH141DNXU | 1 | Neutral modular fuse fuse holder |
| Fuse holder or | nly | |
| CH141DU | 1 | 1-pole modular fuse holder |
| CH142DU | 2 | 2-pole modular fuse holder |
| CH143DU | 3 | 3-pole modular fuse holder |
| CH144DU | 4 | 4-pole modular fuse holder |
| Fuse holder an | d neutral | |
| CH141DNU | 2 | 1-pole + neutral modular fuse holder |
| CH143DNU | 4 | 2-pole + neutral modular fuse holder |
| Fuse holder w | ith neon ir | ndicator |
| CH141DIU | 1 | 1-pole modular fuse holder with neon indicator |
| CH142DIU | 2 | 2-pole modular fuse holder with neon indicator |
| CH143DIU | 3 | 3-pole modular fuse holder with neon indicator |
| CH144DIU | 4 | 4-pole modular fuse holder with neon indicator |
| Fuse holder w | ith neon ir | ndicator and neutral |
| CH141DNIU | 2 | 1-pole + neutral modular fuse holder with neon indicator |
| CH143DNIU | 4 | 3-pole + neutral modular fuse holder with neon indicator |
| Fuse holder w | ith micros | witch |
| CH141DMSU-F | 1 | 1-pole modular fuse holder with microswitch for remote fuse indication operation |
| CH143DMSU-F | 3 | 3-pole modular fuse holder with microswitch for remote fuse indication operation |
| Fuse holder w | ith micros | witch and neutral |
| CH143DNMSU-F | 4 | 3-pole + neutral modular fuse holder with microswitch for remote fuse indication operation |
| Fuse holder w | ith LED In | dicator |
| CHPV141DI-48U | 1 | 1-pole modular fuse holder with LED indicator |
| | r photovo | Itaic applications |
| CHPV141U | 1 | 1-pole modular fuse holder |
| CHPV141IU | 1 | 1-pole modular fuse holder with neon indicator |
| CHPV142U | 2 | 2-pole modular fuse holder holder |
| CHPV142IU | 2 | 2-pole modular fuse holder with neon indicator |

CH14 - Modular fuse holders for 14 x 51 mm fuse links, 690 V a.c. / 750 and 1500V d.c., 50 A

Technical data

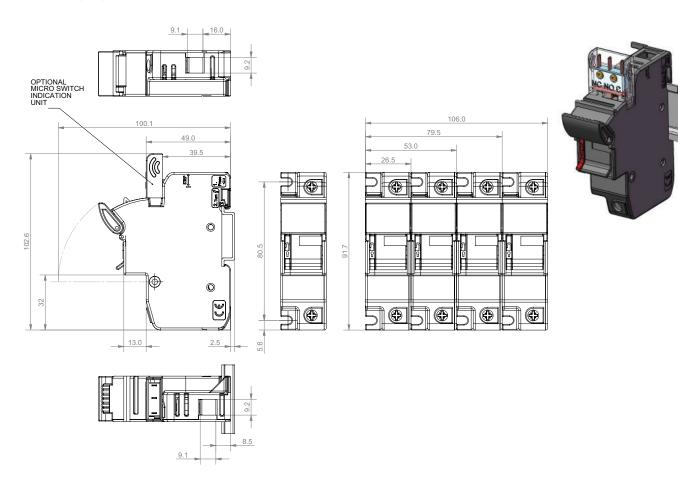
| | Rated curre | nt | Rated voltag | ge | _ | | Rated breaking | Compatible |
|----------------------|-------------------------|------|--------------|-------------|---|---|--------------------|---|
| Туре | IEC | UL | IEC | UL | Agency markings | Terminal rating | withstand capactiy | Bussmann series fuse links |
| CH14 | 50 A (a.c. | 50 A | 690 V a.c. / | 700 V a.c. | IEC 60269-1 and 2 | Cable size: 1.5-50 mm ² | 120 kA a.c. | C14G and C14M FWX-A14F ¹ |
| | and d.c.) | | 750 V d.c. | | UL Listed file number E14853 | Recommended torque setting: 3.5 N•m Maximum torque setting: 3.5 N•m | | FWH-A14F ¹ FWP-A14F FWP-G14F |
| CHPV Photovoltaic | 50 A (a.c. and d.c.) | 50 A | 1500 V d.c. | 1500 V d.c. | IEC 60269-1 and 2 UL Listed file number E348242 | Mounting 35 mm DIN-Rail or 2 x M4 panel mounting screws | 10 kA d.c. | PV-A14F |

¹ Maximum allowed continuous current applies. Please refer to data sheet for details.

Accessories

| Catalogue numbers | Description | Unit packing |
|----------------------|---|--------------|
| JV-L | Multi-pole connector kit. One kit will gang up to 4-poles together | 12 |
| CH14-SPS | Microswitch to work on CH141D(I)U, 1 n/o + 1 n/c changeover type | 3 |
| CH14-TPS | Microswitch to work on CH143D(I)U, 1 n/o + 1 n/c changeover type | 3 |
| CH14-CTP | IP20 protection accessory, provides IP20 protection to terminals with 10mm ² or less cable | 12 |

Dimensions (mm)



CH22 - Modular fuse holders for 22 x 58 mm fuse links, 690 V a.c./1000 V d.c., 125 A

Specifications

Description

Compact DIN-Rail mount fuse holders for 22 \times 58 mm cylindrical fuse links. Available in different versions with neutral and microswitch.

Technical data

Rated voltage & Rated current: see table below

Compatible fuse links

- C22G and C22M 22 x 58 mm gG and gM cylindrical fuse links
- FWP-A22F Ferrule (please consult Eaton for derating information bulehighspeedtechnical@eaton.com
- FWP-G22F

Standards / Agency information

IEC 60269-1 and 60269-2

Catalogue numbers

| Catalogue number | Number of poles | Description |
|---------------------|--------------------|--|
| Neutral only | | |
| CH221DNXU | 1 | Neutral holder |
| Fuse holder on | ly | |
| CH221DU | 1 | 1-pole modular fuse holder |
| CH222DU | 2 | 2-pole modular fuse holder |
| CH223DU | 3 | 3-pole modular fuse holder |
| CH224DU | 4 | 4-pole modular fuse holder |
| Fuse holder wi | th neon ir | ndicator |
| CH221DIU | 1 | 1-pole modular fuse holder with neon indicator |
| CH222DIU | 2 | 2-pole modular fuse holder with neon indicator |
| CH223DIU | 3 | 3-pole modular fuse holder with neon indicator |
| CH224DIU | 4 | 4-pole modular fuse holder with neon indicator |
| Fuse holder an | d neutral | |
| CH221DNU | 2 | 1-pole + neutral modular fuse holder |
| CH223DNU | 4 | 3-pole + neutral modular fuse holder |
| Fuse holder wi | th neutral | and neon indicator |
| CH221DNIU | 2 | 1-pole + neutral modular fuse holder + neon indicator |
| CH223DNIU | 4 | 3-pole + neutral modular fuse holder + neon indicator |
| Fuse holder wi | th micros | witch |
| CH221DMSU-F | 1 | 1-pole modular fuse holder with microswitch (pre-breaking/fuse operation) |
| CH223DMSU-F | 3 | 3-pole modular fuse holder with microswitch (pre-breaking/fuse operation) |
| Fuse holder wi | th neutral | and microswitch |
| CH223DNMSU-F | 3 | 3-pole modular fuse holder + neutral + microswitch (pre-breaking/fuse operation) |
| Fuse holder wi | th LED In | dicator |
| CH221DI-48U | 1 | 1-pole modular fuse holder with LED Indicator |

Technical data

| Rated voltag | je | Rated curre | nt | _ | | Rated breaking | Compatible |
|---------------------------|------------|--------------------------|--------------|--|--|---------------------------|-------------------------------|
| IEC | UL | IEC | UL | Agency markings | Terminal rating | withstand capactiy | Bussmann series fuse links |
| | | | | | Cable size: 2.5-70 mm ² | | |
| 690 V a.c. 1000 V d.c. | 700 V a.c. | 125 A (a.c. and d.c.) | 100 A (a.c.) | IEC 60269-1 and 2 UL Listed file number | Recommended torque setting: 4 N•m Maximum torque setting: 5 N•m | 120 kA a.c. 50 kA d.c. | FWP Ferrule ¹ |
| | | | | E14853 | Mounting 35 mm DIN-Rail or 2 x M4 panel mounting screws | | |

¹ Maximum allowed continuous current applies. Please refer to data sheet for details.

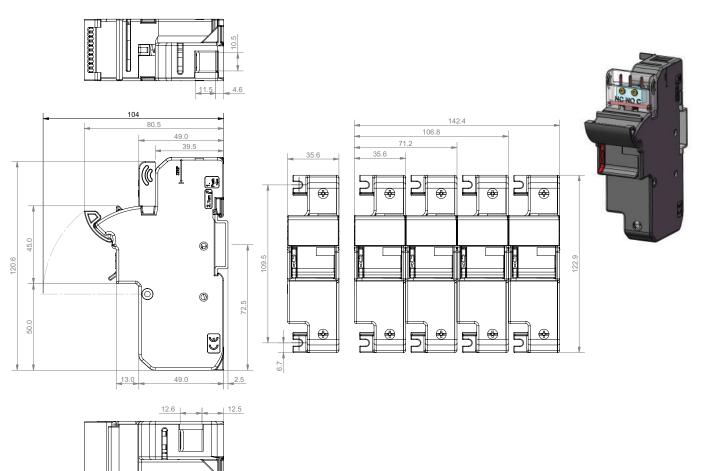


CH22 - Modular fuse holders for 22 x 58 mm fuse links, 690 V a.c./1000 V d.c., 125 A

Accessories

| Catalogue numbers | Description | Unit packing |
|----------------------|---|--------------|
| JV-L | Multi-pole connector kit. One kit will gang up to 4-poles together | 12 |
| CH22-CTP | IP20 protection accessory, provides IP20 protection to terminals with 10mm ² or less cable | 12 |
| CH22-SPS | Microswitch to work on CH221D(I)U, 1 n/o + 1 n/c changeover type | 3 |
| CH22-TPS | Microswitch to work on CH223D(I)U, 1 n/o + 1 n/c changeover type | 3 |

Dimensions (mm)



Data sheet: 10115

170H - Microswitches for square body fuse links - indicator systems

High Speed square body fuse links are available with three different indicators.

1 - Visual Indicator

The indicator situated in one end plate is clearly visible as soon as the fuse link has operated. The minimum rated voltage for operating the indicator is 20 V.

2 - Type T Indicator

The indicator is situated on one cover plate with a cover plate tag to accomodate an auxiliary switch. The minimum rated voltage for operating the indicator is 20 V. A special low rated voltage indicator (1.5V) is available on request).

3 - Type K Indicator

The indicator is situated on the fuse link body. It is covered by an adaptor for snap-on mounting of an auxiliary switch. The operating Rated voltage of the indicator is 1.5V. As a matter of safety, the factory mounted adaptor must not be removed from the fuse link.

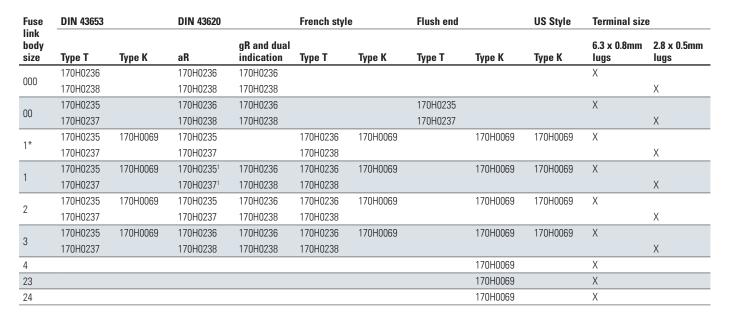
Microswitches

Specifications

High Speed square body fuse links with either Type T indicator or Type K indicator can be equiped with a microswitch. For remote electrical indication of fuse link operations. All microswitches have one normally open and one normally closed contact.

Technical data

- Rated voltage: 10-250 V a.c.
- Rated current: 30mA-2A



For special microswitches, double microswitches, DC rating of the microswitches, lower/higher signal levels and for insulation voltages please contact Eaton: bulehighspeedtechnical@eaton.com.

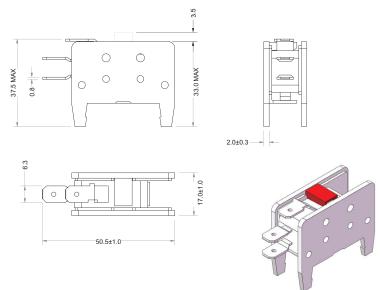
¹ DIN2* (55x55), if DIN2 then use microswitch 170H0236, 170H0238.



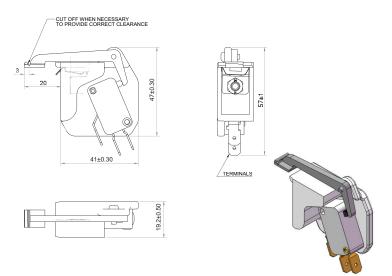


170H - Microswitches for square body fuse links - indicator systems

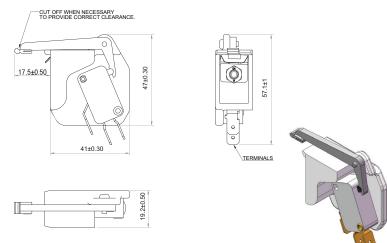
Dimensions (mm) - 170H0069



Dimensions (mm) - 170H0235 and 170H0237 for bent tags



Dimensions (mm) - 170H0236 and 170H0238 for straight tags



FATON

200M1

Microswitches for British Standard BS88-4 fuse links - Trip indicator/Microswitches

Specifications

Trip-indicator fuse links are available for use in parallel with the main BS88-4 fuse links. They can either be attached to the associated fuse link or mounted separately in panel mounted fuse clips. A push-on adaptor and microswitch attachment is available for use with the trip indicator to give the facility of remote indication.

Fuse ratings of 20 A and below cannot usually accommodate a trip fuse link in parallel.

Catalogue numbers

Trip indicator kit (indicator + clips)

Fuse type Catalogue number

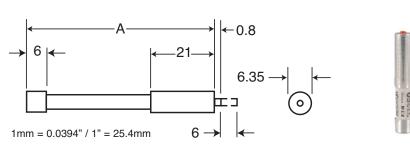
| ET | EC-600 |
|------|--------|
| EET | EC-600 |
| FE | EC-600 |
| FEE | EC-600 |
| LET | EC-250 |
| FM | MC-600 |
| FMM | MC-600 |
| LMT | MC-250 |
| LMMT | MC-250 |
| MT | MC-700 |
| MMT | MC-700 |
| | |

Indicator Only

| Fuse type | Max RMS AC voltage (V a.c. RMS) | Dim 'A' (mm) |
|-----------|---------------------------------------|-----------------|
| TI250 | 250 | 37.6 |
| TI500 | 500 | 47.5 |
| TI600 | 600 | 55.7 |
| TI700 | 700 | 61.8 |
| TI1100 | 1100 | 98.4 |
| TI1500 | 1500 | 120.8 |
| TI2000 | 2000 | 147.5 |
| TI2500 | 2500 | 198.3 |

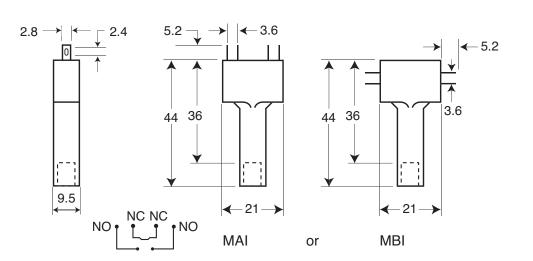


Dimensions (mm)



Microswitch/Adaptor: MAI and MBI

Dimensions (mm)





FW14-PCB Mountable fuse clip

Specifications

Catalogue number

FW14-PCB

Description

Mountable fuse clip compatible with any 14 mm $\ensuremath{\textit{Ø}}$ fuse links.

Technical data

• Max rated power acceptance: 6 Watts

Please note deratings apply to fuse links with watts loss greater than 6 Watts, contact bulehighspeedtechnical@eaton.com for application assistance

- Material: Copper Alloy CuSn, tin plated
- Weight: 5 grams each

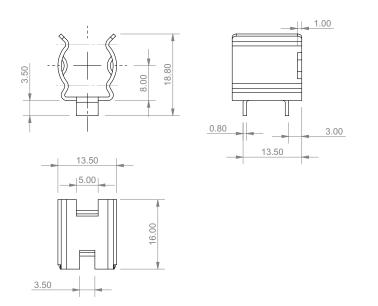
Compatible fuse links

• Any 14 mm Ø fuse links

Standards / Agency information

IEC 60269-1

Dimensions (mm)

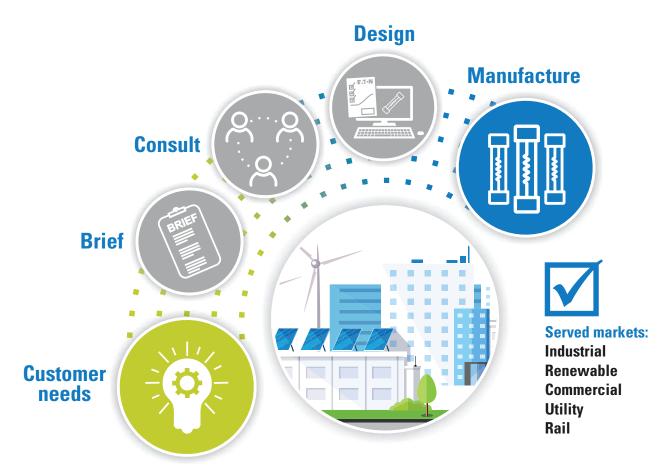






Appropriate creepage and clearances distances between clips should be maintained when mounting on the PCB.

Customised fuse design service



Eaton's Field Applications Engineers are able to draw upon more than 100 years of fuse design knowledge to fully meet your application needs and ensure you can rely on the best in class electrical circuit protection solutions. As the trend towards clean energy continues to drive new technologies in renewable energy generation, energy storage, electrical transportation and the adoption of DC technology throughout wider industries, the demand for customised fusing products has only increased.

Our Application and Design Engineers located at R&D centres in North America, Europe and Asia can leverage over 100 years of fuse design and application experience along with our in-house test labs to meet any customised solution requests for **Eaton's Bussmann series fuses**.

Our services include:

- New current/voltage ratings
- Design to meet I2t requirements
- Customised mounting connection and plating materials
- Modify indicator locations/ add or remove indicators
- Special end connections
- Acquire UL/IEC/CCC/CSA certificates
- Customised testing such as shock vibration
- Higher breaking capacity testing

Contact us today:

For general fuse enquiries: buletechnical@eaton.com

For high speed fuses enquiries : bulehighspeedtechnical@ eaton.com



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As the automotive world is becoming ever more electrified the power requirements are changing, so have the protection needs. Eaton is continually developing designs to meet these ever changing requirements. The experience of Eaton in protecting semiconductor devices has proved invaluable as vehicle powertrain systems have moved to power based converters for the variable speed motor drives and also for auxiliary power conversion.

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|--------------------------------|--|
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| Current | Options up to 1250 A, please contact Eaton's Bussmann series Application engineers to discuss your specific requirements |
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| Breaking capacity | Up to 150 kA |
| | EXP EXP EXP EXP EXP EXP EXP EXP |

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| Fax: | 00 44 (0) 1509 882 786 |
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|---|------------------------|--|--|
| Friday | 8.30 a.m 4.00 p.m. GMT | | |
| Application Engineering can be reached via: | | | |
| Phone: | 00 44 (0) 1509 882 699 | | |
| Fax: | 00 44 (0) 1509 882 794 | | |
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