

AF190-40-11-14



Products → Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

General Information

Extended Product Type:	AF190-40-11-14
Product ID:	1SFL487102R1411
EAN:	7320500504307
Catalog Description:	AF190-40-11-14 Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 250-500 V, 50/60 Hz and DC

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	140 mm
Product Net Depth / Length:	152,6 mm
Product Net Height:	195,6 mm
Product Net Weight:	3.37 kg

Technical

Number of Main Contacts NO:	4
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
Rated Operational Voltage:	Main Circuit 1000 V
Rated Frequency (f):	Main Circuit 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 275 A
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 275 A (1000 V) 40 °C 250 A (690 V) 70 °C 200 A (690 V) 60 °C 250 A (1000 V) 60 °C 225 A (1000 V) 70 °C 185 A
Rated Operational Current AC-3 (I_e):	(415 V) 55 °C 190 A (220 / 230 / 240 V) 55 °C 190 A (440 V) 55 °C 190 A (380 / 400 V) 55 °C 190 A

Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 55 kW (380 / 400 V) 90 kW (440 V) 110 kW (415 V) 90 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I _e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I _e AC-3
Short-Circuit Protective Devices:	gG Type Fuses 355 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 275 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 878 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1520 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1900 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 621 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 3300 A
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 8 kV
Mechanical Durability:	5 million
Maximum Mechanical Switching Frequency:	300 cycles per hour
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x U _c Min. ... 1.1 x U _c Max. (at θ ≤ 70 °C) °C
Rated Control Circuit Voltage (U_c):	60 Hz 250 ... 500 V 50 Hz 250 ... 500 V DC Operation 250 ... 500 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 185 V·A Holding at Max. Rated Control Circuit Voltage DC 3.9 W Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A Pull-in at Max. Rated Control Circuit Voltage DC 188 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 185 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A
Operate Time:	Between Coil De-energization and NO Contact Opening 45 ... 80 ms Between Coil Energization and NO Contact Closing 25 ... 60 ms
Connecting Capacity Main Circuit:	Rigid Al-Cable 1 x 95 ... 185 mm ² Flexible 2 x 50 ... 95 mm ² Rigid Cu-Cable 2 x 50 ... 120 mm ²
Connecting Capacity Auxiliary Circuit:	Solid 1 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm ² Stranded 2 x 1 ... 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 2 x 0.75 ... 2.5 mm ²

Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
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Terminal Type:	Main Circuit: Bars
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Environmental

Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... +50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +70 °C Close to Contactor for Storage -40 ... +70 °C
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Maximum Operating Altitude Permissible:	3000 m
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Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
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General Use Rating UL/CSA:	(600 V AC) 250 A
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Certificates and Declarations (Document Number)

CB Certificate:	SEMKO_SE-77322
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CCC Certificate:	CQC_2014010304676685
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cUL Certificate:	20140925-E73397
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DNV GL Certificate:	DNV_E-14043
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LR Certificate:	LR_14_70011(E1)
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Container Information

Package Level 1 Units:	1 piece
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Package Level 1 Gross Weight:	3.92 kg
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Package Level 1 EAN:	7320500504307
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Classifications

Object Classification Code:	Q
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E-number:	3210328
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ETIM 4:	EC000066 - Magnet contactor, AC-switching
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ETIM 5:	EC000066 - Magnet contactor, AC-switching
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ETIM 6:	EC000066 - Power contactor, AC switching
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