

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

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing 36

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing Air

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Ring Main Units → SafeRing AirPlus

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus 36

Parts & Services → Medium Voltage Products and Systems → Switchgear and Motor Control
→ Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus Air

General Information

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| Extended Product Type: | BC6-30-01-01 |
| Product ID: | GJL1213001R0011 |
| EAN: | 4013614052828 |
| Catalog Description: | BC6-30-01-01 Mini Contactor 24VDC |
| Long Description: | The BC6-30-01 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 4 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the noiseless and hum-free coil, a switch position indication and the integrated possibility for rail or wall mounting. |

Ordering

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| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85365080 |

Popular Downloads

| | |
|-------------------------------------------|-----------------|
| Data Sheet, Technical Information: | 1SBC100173C0201 |
| Instructions and Manuals: | 2CDC102047M6801 |
| Dimension Diagram: | GJL1200436F0001 |

Dimensions

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| Product Net Width: | 52.5 mm |
| Product Net Height: | 57.5 mm |
| Product Net Depth / Length: | 46.5 mm |
| Product Net Weight: | 0.175 kg |

Technical

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| Number of Poles: | 4 |
| Mini Contactor Type: | Mini Contactor |
| Rated Operational Voltage: | Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Main Circuit 12 ... 690 V AC/DC Main Circuit 690 V AC |
| Rated Frequency (f): | Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC |
| Rated Impulse Withstand Voltage (U_{imp}): | Auxiliary Circuit 6 kV Main Circuit 6 kV |
| Rated Insulation Voltage (U_i): | 690 V acc. to UL/CSA 600 V |
| Number of Main Contacts NC: | 0 |
| Number of Main Contacts NO: | 3 |
| Rated Operational Current AC-1 (I_e): | (220 / 240 V) 40 °C 20 A (220 / 240 V) 55 °C 16 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 55 °C 16 A (690 V) 40 °C 6 A (690 V) 55 °C 6 A |
| Rated Operational Power AC-3 (P_e): | (220 / 230 / 240 V) 2.2 kW (400 V) 4 kW (400 V) Three Phase 4 kW (440 V) 4 kW (500 V) 4 kW (690 V) 3 kW |
| Rated Short-time Withstand Current (I_{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A |
| Number of Auxiliary Contacts NC: | 1 |
| Number of Auxiliary Contacts NO: | 0 |
| Rated Operational Current AC-15 (I_e): | (120 V) 4 A (220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A |

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| Rated Operational Current DC-13 (I_e): | (110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A |
| Conventional Free-air Thermal Current (I_{th}): | Main Circuit 20 A |
| Rated Control Circuit Voltage (U_c): | 24 V DC |
| Coil Operating Limits: | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55^\circ\text{C}$) |
| Degree of Protection: | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Mechanical Durability: | 10000000 cycle |
| Minimum Switching Capacity: | Auxiliary Circuit 17 V Auxiliary Circuit 5 mA |
| Maximum Electrical Switching Frequency: | AC-1 300 cycles per hour AC-15 600 cycles per hour AC-3 600 cycles per hour DC-1 600 cycles per hour DC-13 600 cycles per hour DC-3 600 cycles per hour |
| Connecting Capacity Main Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Auxiliary Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Control Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Wire Stripping Length: | Auxiliary Circuit 9 mm Main Circuit 9 mm |
| Tightening Torque: | Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m |
| Mounting on DIN Rail: | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |
| Power Loss: | at Rated Operating Conditions per Pole 2 W |
| Standards: | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |

Environmental

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| Ambient Air Temperature: | Operation -25 ... +55 °C Storage -40 ... +80 °C |
| Maximum Operating Altitude Permissible: | 2000 m |
| Resistance to Shock acc. to IEC 60068-2-27: | 11 ms Pulse 15g |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5g / 5 ... 150 Hz |
| RoHS Status: | Following EU Directive 2011/65/EU |

Technical UL/CSA

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| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V AC Auxiliary Circuit 600 V AC/DC |
| Full Load Amps Motor Use: | (240 V AC) Single Phase 4.9 A (440 ... 480 V AC) Three Phase 4.8 A |
| Horsepower Rating UL/CSA: | (208 V AC) Three Phase 1 Hp (220 ... 240 V AC) Single Phase 0.5 Hp (220 ... 240 V AC) Three Phase 2 Hp (440 ... 480 V AC) Three Phase 3 Hp (550 ... 600 V AC) Three Phase 1 Hp |
| General Use Rating UL/CSA: | (300 V AC) 12 A |
| Connecting Capacity Main Circuit UL/CSA: | Stranded 1/2x 22-10 AWG |
| Connecting Capacity Auxiliary Circuit UL/CSA: | Stranded 1/2x 22-10 AWG |
| Tightening Torque UL/CSA: | Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb |

Certificates and Declarations (Document Number)

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|----------------------------------------|-----------------|
| BV Certificate: | 1SAA920000-0204 |
| CB Certificate: | 1SAA938000-2002 |
| CCC Certificate: | 1SAA938001-3804 |
| cUL Certificate: | cUL E191658 |
| Declaration of Conformity - CE: | 1SAD938512-0001 |
| DNV GL Certificate: | 1SAA938000-0306 |
| EAC Certificate: | 1SAA920000-2702 |
| Instructions and Manuals: | 2CDC102047M6801 |
| KC Certificate: | 1SAA938000-1501 |
| LR Certificate: | 1SAA938000-0504 |
| RMRS Certificate: | 1SAA938000-0704 |

RoHS Information: 1SAD938512-0001

Container Information

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| Package Level 1 Units: | 10 piece |
| Package Level 1 Width: | 115 mm |
| Package Level 1 Height: | 54 mm |
| Package Level 1 Depth / Length: | 280 mm |
| Package Level 1 Gross Weight: | 1.82 kg |
| Package Level 1 EAN: | 4013614414473 |

Classifications

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|-----------------------------|-------------------------------------------|
| Object Classification Code: | Q |
| E-nummer: | 3210061 |
| ETIM 4: | EC000066 - Magnet contactor, AC-switching |
| ETIM 5: | EC000066 - Magnet contactor, AC-switching |
| ETIM 6: | EC000066 - Power contactor, AC switching |
| ETIM 7: | EC000066 - Power contactor, AC switching |
| eClass: | 7.0 27371003 |
| UNSPSC: | 39121529 |

Accessories

| Identifier | Description | Type | Qty | Unit Of Measure |
|-----------------|----------------------------|----------|-----|-----------------|
| GJL1201317R0002 | CA6-11E Auxiliary Contact | CA6-11E | 1 | piece |
| GJL1201317R0003 | CA6-11M Auxiliary Contact | CA6-11M | 1 | piece |
| GJL1201317R0004 | CA6-11N Auxiliary Contact | CA6-11N | 1 | piece |
| GJL1201330R0002 | CAF6-11E Auxiliary Contact | CAF6-11E | 1 | piece |
| GJL1201330R0003 | CAF6-11M Auxiliary Contact | CAF6-11M | 1 | piece |
| GJL1201330R0004 | CAF6-11N Auxiliary Contact | CAF6-11N | 1 | piece |
| GJL1201330R0006 | CAF6-20E Auxiliary Contact | CAF6-20E | 1 | piece |
| GJL1201330R0007 | CAF6-20M Auxiliary Contact | CAF6-20M | 1 | piece |
| GJL1201330R0008 | CAF6-20N Auxiliary Contact | CAF6-20N | 1 | piece |
| GJL1201330R0010 | CAF6-02E Auxiliary Contact | CAF6-02E | 1 | piece |
| GJL1201330R0011 | CAF6-02M Auxiliary Contact | CAF6-02M | 1 | piece |
| GJL1201330R0012 | CAF6-02N Auxiliary Contact | CAF6-02N | 1 | piece |

| Identifier | Description | Type | Qty | Unit Of Measure |
|-----------------|---------------------|-------|-----|-----------------|
| GJL1201904R0001 | BN6 Plunger | BN6 | 1 | piece |
| GJL1201906R0001 | LT6-B Cover Cap | LT6-B | 1 | piece |
| GJL1201907R0001 | LP6 Connecting Link | LP6 | 1 | piece |

Product specific part data

| Category | Switchgear Part Category |
|------------------|------------------------------|
| SafePlus | Auxiliary Contactor Motor |
| SafeRing | Auxiliary Contactor Motor |
| SafeRing 36 | Auxiliary Contactor Motor |
| SafePlus 36 | Auxiliary Contactor Motor |
| SafeRing Air | Auxiliary Contactor Motor |
| SafePlus Air | Motor Auxiliary Contactor |
| SafeRing AirPlus | Auxiliary Contactor Motor |

