

PRODUCT-DETAILS

BC6-30-10-05

BC6-30-10-05 Mini Contactor 220-240VDC



General Information

| | |
|-----------------------|--|
| Extended Product Type | BC6-30-10-05 |
| Product ID | GJL1213001R0105 |
| EAN | 4013614052927 |
| Catalog Description | BC6-30-10-05 Mini Contactor 220-240VDC |

Long Description

The BC6-30-10 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

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

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100173C0201 |
| Instructions and Manuals | 2CDC102047M6801 |

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 | 3 |
| 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 | 0 |
| Number of Auxiliary Contacts NO | 1 |
| 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 |
| 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 | Main Circuit 20 A |

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|---|---|
| Thermal Current (I_{th}) | |
| Rated Control Circuit Voltage (U_c) | 220 ... 240 V DC |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55$ °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 |

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

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 |

Certificates and Declarations (Document Number)

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|-----------------------------------|-----------------|
| BV Certificate | 1SAA920000-0204 |
| CB Certificate | 1SAA938000-2002 |
| CCC Certificate | 1SAA938001-3805 |
| cULus Certificate | cUL_E191658 |
| Declaration of Conformity - CE | 1SAD938516-0001 |
| 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 | 1SAD938514-0001 |

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 | 4013614414589 |

Classifications

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|----------------------------|---|
| Object Classification Code | Q |
| 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 |

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|-------------------|--------------|
| eClass | 7.0 27371003 |
| UNSPSC | 39121529 |
| E-Number (Sweden) | 3220321 |

Accessories

| Identifier | Description | Type | Quantity | 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 |
| GJL1201330R0003 | CAF6-11M Auxiliary Contact | CAF6-11M | 1 | piece |
| GJL1201330R0006 | CAF6-20E Auxiliary Contact | CAF6-20E | 1 | piece |
| GJL1201330R0011 | CAF6-02M Auxiliary Contact | CAF6-02M | 1 | piece |
| GJL1201330R0007 | CAF6-20M Auxiliary Contact | CAF6-20M | 1 | piece |
| GJL1201330R0012 | CAF6-02N Auxiliary Contact | CAF6-02N | 1 | piece |
| GJL1201330R0008 | CAF6-20N Auxiliary Contact | CAF6-20N | 1 | piece |
| GJL1201330R0002 | CAF6-11E Auxiliary Contact | CAF6-11E | 1 | piece |
| GJL1201330R0004 | CAF6-11N Auxiliary Contact | CAF6-11N | 1 | piece |
| GJL1201330R0010 | CAF6-02E Auxiliary Contact | CAF6-02E | 1 | piece |
| GJL1201906R0001 | LT6-B Cover Cap | LT6-B | 1 | piece |
| GJL1201907R0001 | LP6 Connecting Link | LP6 | 1 | piece |
| GJL1201904R0001 | BN6 Plunger | BN6 | 1 | piece |

Where Used (as a spare part for "Products")

| Identifier | Description | Quantity | Unit Of Measure |
|--------------|--------------------------|----------|-----------------|
| 9AAC30400163 | No Description Available | 1 | piece |
| 9AAC30400421 | No Description Available | 1 | piece |
| 9AAC30403877 | No Description Available | 1 | piece |
| 9AAC30404896 | No Description Available | 1 | piece |
| 9AAF404899 | No Description Available | 1 | piece |
| 9AAF404900 | No Description Available | 1 | piece |
| 9AAF407277 | No Description Available | 1 | piece |
| 9AAF408067 | No Description Available | 1 | piece |

Product specific part data

| Product | Category | Switchgear Part Category |
|--------------|-------------|------------------------------|
| 9AAC30400163 | SafePlus | Auxiliary Contactor Motor |
| 9AAC30400421 | SafeRing | Auxiliary Contactor Motor |
| 9AAC30403877 | SafeRing 36 | Auxiliary Contactor Motor |
| 9AAC30404896 | SafePlus 36 | Auxiliary Contactor Motor |

| Product | Category | Switchgear Part Category |
|------------|------------------|---------------------------|
| 9AAF404899 | SafeRing Air | Auxiliary Contactor Motor |
| 9AAF404900 | SafePlus Air | Auxiliary Contactor Motor |
| 9AAF407277 | SafeRing AirPlus | Auxiliary Contactor Motor |
| 9AAF408067 | SafePlus AirPlus | Auxiliary Contactor Motor |

Categories

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

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

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

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

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

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

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

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

Medium Voltage Products and Systems → Switchgear and Motor Control → Secondary Switchgear → Gas Insulated Secondary Switchgear → SafePlus AirPlus

