

PRODUCT-DETAILS

BC6-30-01-1.4-81

BC6-30-01-1.4-81 Mini Contactor 24VDC, 1.4W



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|---------|------------------|
| General | Information |

| Extended Product Type | BC6-30-01-1.4-81 |
|-----------------------|--|
| Product ID | GJL1213001R8011 |
| EAN | 4013614053061 |
| Catalog Description | RC6-30-01-1 4-81 Mini Contactor 24VDC 1 4W |

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. Due to the low coil consumption, this device can be directly controlled by a PLC. 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 | 1SBC100173C0201 |
|-----------------------|-----------------|
| Information | |

2CDC102047M6801

Instructions and Manuals

| Dimensions | Instructions and Manuals | 2CDC102047M6801 |
|---|---------------------------|--|
| Product Net Width 52.5 Product Net Height 57.5 Product Net Depth / Length 46.5 Product Net Weight 0.175 Technical Number of Poles Mini Contactor Type Interface Mini Conta Rated Operational Voltage Auxiliary Circuit 12 240 V Auxiliary Circuit 12 260 V Ac Main Circuit 12 690 V Ac Main Circuit 12 690 V Ac Main Circuit 12 690 V Ac Rated Frequency (f) Control Circuit 12 690 V Ac Main Circuit 60 Main Circuit 60 Main Circuit 50 Main C | Dimension Diagram | GJL1200436F0001 |
| Product Net Width 52.5 Product Net Height 57.5 Product Net Depth / Length 46.5 Product Net Weight 0.175 Technical Number of Poles Mini Contactor Type Interface Mini Conta Rated Operational Voltage Auxiliary Circuit 12 900 v Ac. Main Circuit 12 900 v Ac. Main Circuit 12 900 v Ac. Main Circuit 12 900 v Ac. Rated Frequency (f) Control Circuit 12 900 v Ac. Main Circuit 60 Rated Impulse Withstand Auxiliary Circuit 40. Voltage (U _{imp}) Main Circuit 60 Number of Main Contacts NC 69 Number of Main Contacts NC C Number of Main Contacts NC C Number of Main Contacts NC C Rated Operational Current AC-1 (I ₀) (220 / 240 V) 40 °C c (380 / 440 V) 5° C c (380 / 440 V) 40 °C c (890 V) 5° C c (890 V) 5° C c Rated Operational Power AC-3 (P ₀) (220 / 230 / 240 V) 2.2 (400 V) 4 (400 V) Three Phase 4 (400 V) 4 (400 V) Three Phase 4 | Dimensions | |
| Product Net Height 57.5 Product Net Depth / Length 46.5 Product Net Weight 0.175 Technical | | 50.5 mm |
| Product Net Depth / Length 46.5 Product Net Weight 0.175 Technical Number of Poles Mini Contactor Type Interface Mini Conta Rated Operational Voltage Auxiliary Circuit 12 500 ∨ AC Main Circuit 50 Main Circuit 50 Main Circuit 50 Main Circuit 60 Main Circuit 50 Main Circuit | | 52.5 mm 57.5 mm |
| Length 0.175 Technical Number of Poles Mini Contactor Type Interface Mini Contactor Type Rated Operational Voltage Auxiliary Circuit 12 240 V Auxiliary Circuit 12 260 V AC. Main Circuit 20 260 V AC. Main Circuit 30 Main Circuit 40 Main Circuit 50 Main Circuit 60 Main Circuit 50 Mai | - <u> </u> | 46.5 mm |
| Technical | • | 10.0 11111 |
| Number of Poles Mini Contactor Type Interface Mini Contactor Mini Contactor Type Rated Operational Voltage Auxiliary Circuit 12 900 V AC. Main Circuit 12 900 V AC. Main Circuit 12 900 V AC. Main Circuit 500 Main Circuit 50 | Product Net Weight | 0.175 kg |
| Mini Contactor Type Interface Mini Contactor Rated Operational Voltage Auxiliary Circuit 12 240 V Auxiliary Circuit 12 500 V AC. Main Circuit 13 Main Circuit 14 Main Circuit 15 Main Circuit 1 | Technical | |
| Rated Operational Voltage Auxiliary Circuit 12 240 V Auxiliary Circuit 12 500 V AC Main Circuit 12 509 V AC Main Circuit 12 690 V AC Main Circuit 690 V Rated Frequency (f) Rated Impulse Withstand Voltage (U _{imp}) Rated Insulation Voltage (U _j) Rated Insulation Voltage (U _j) Rated Insulation Voltage (U _j) Rated Insulation Contacts NC Number of Main Contacts NC Rated Operational Current AC-1 (I _e) Rated Operational Current AC-1 (I _e) Rated Operational Power AC-3 (P _e) Rated Operational Power AC-3 (P _e) Rated Operational Power AC-3 (P _e) Rated Operational Power AC-3 (V _e) Rated Operational Power | Number of Poles | 3 |
| Auxiliary Circuit 12 500 V AC/ Main Circuit 69 C/ Main Circuit 69 C/ Main Circuit 50 C/ Main Circuit 50 Main Circuit 60 Main C | Mini Contactor Type | Interface Mini Contactor |
| Rated Impulse Withstand Auxiliary Circuit 60 Main Circuit 50 Main Circuit 50 Main Circuit 50 Main Circuit 60 Main Contacts Rated Insulation Voltage 69 acc. to UL/CSA 60 Main Circuit 60 Main Contacts Number of Main Contacts NC Number of Main Contacts Value of Main Contacts NO Value of Main Contacts NO (220 / 240 V) 40 °C 2 (380 / 440 V) 55 °C 1 (380 / 440 V) 40 °C 2 (380 / 440 V) 55 °C 1 (690 V) 40 °C 2 (380 / 440 V) 55 °C 1 (690 V) 55 °C Rated Operational Power (220 / 230 / 240 V) 2.2 AC-3 (P _e) (400 V) 4 (400 | 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 |
| Voltage (U _{imp}) Main Circuit 6 Rated Insulation Voltage 69 (U _i) acc. to UL/CSA 60 Number of Main Contacts NC Number of Main Contacts NO Rated Operational Current (220 / 240 V) 40 °C 2 AC-1 (I _e) (220 / 240 V) 55 °C 1 (380 / 440 V) 55 °C 1 (380 / 440 V) 40 °C 2 (380 / 440 V) 55 °C (690 V) 40 °C 2 (690 V) 55 °C (400 V) Three Phase 4 (400 V) 4 (400 V) Three Phase 4 (440 V) 4 (440 V) 4 | Rated Frequency (f) | Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC |
| (U _I) acc. to UL/CSA 60 Number of Main Contacts NC Number of Main Contacts NO Rated Operational Current (220 / 240 V) 40 °C 2 AC-1 (I _e) (220 / 240 V) 55 °C 1 (380 / 440 V) 40 °C 2 (380 / 440 V) 55 °C 1 (690 V) 40 °C (690 V) 55 °C (690 V) 55 °C Rated Operational Power (220 / 230 / 240 V) 2.2 AC-3 (P _e) (400 V) 4 (400 V) Three Phase 4 (440 V) 4 | | Auxiliary Circuit 6 kV Main Circuit 6 kV |
| NC Number of Main Contacts NO Rated Operational Current AC-1 (I _e) (220 / 240 V) 40 °C 2 (220 / 240 V) 55 °C 1 (380 / 440 V) 40 °C 2 (380 / 440 V) 55 °C 1 (690 V) 40 °C (690 V) 55 °C Rated Operational Power AC-3 (P _e) (220 / 230 / 240 V) 2.2 (400 V) 4 (400 V) Three Phase 4 (440 V) 4 | | 690 V acc. to UL/CSA 600 V |
| NO Rated Operational Current AC-1 (I _e) (220 / 240 V) 40 °C 2 (220 / 240 V) 55 °C 1 (380 / 440 V) 40 °C 2 (380 / 440 V) 55 °C 1 (690 V) 40 °C (690 V) 55 °C Rated Operational Power AC-3 (P _e) (220 / 230 / 240 V) 2.2 (400 V) 4 (400 V) 4 (400 V) 4 | | 0 |
| AC-1 (I _e) (220 / 240 V) 55 °C 1 (380 / 440 V) 40 °C 2 (380 / 440 V) 55 °C 1 (690 V) 40 °C (690 V) 55 °C Rated Operational Power AC-3 (P _e) (220 / 230 / 240 V) 2.2 (400 V) 4 (400 V) Three Phase 4 (440 V) 4 | | 3 |
| AC-3 (P _e) (400 V) 4 (400 V) Three Phase 4 (440 V) 4 | | (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 |
| | · | (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 |
| | | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A |
| Number of Auxiliary Contacts NC | Number of Auxiliary | 1 |
| Number of Auxiliary Contacts NO | | 0 |
| AC-15 (l _e) (220 / 240 V) (24 V) (380 / 400 V) | | (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 (110 V) 0. DC-13 (I _e) (220 / 240 V) 0. | | (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 Uc (at θ ≤ 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 mm² Flexible with Insulated Ferrule 1/2x 1 2.5 mm² Flexible 1/2x 1 2.5 mm² Rigid 1/2x 1 4 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 1 2.5 mm² Flexible 1/2x 1 2.5 mm² Rigid 1/2x 1 4 mm² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 1 2.5 mm² Flexible 1/2x 1 2.5 mm² Rigid 1/2x 1 4 mm² |
| 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 |
| Remarks | No CA6 or CAF6 mountable |

Technical UL/CSA Main Circuit 600 V AC Maximum Operating Voltage UL/CSA Full Load Amps Motor (240 V AC) Single Phase 4.9 A Use (440 ... 480 V AC) Three Phase 4.8 A (208 V AC) Three Phase 1 Hp Horsepower Rating UL/CSA (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 (300 V AC) 12 A UL/CSA Connecting Capacity Main Stranded 1/2x 22-10 AWG Circuit UL/CSA

| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG |
|--|---------------------------|
| Auxiliary Circuit OL/CSA | |
| Tightening Torque | Auxiliary Circuit 7 in·lb |
| UL/CSA | Control Circuit 7 in·lb |
| | Main Circuit 7 in·lb |

| Environmental | |
|--|--|
| Ambient Air Temperature | Operation -20 +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) | |
|---|-----------------|
| 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 |

| 10 piece |
|---------------|
| 115 mm |
| 54 mm |
| 280 mm |
| 1.82 kg |
| 4013614414763 |
| |

| Classifications | |
|----------------------------|---|
| 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 |
| eClass | 7.0 27371003 |
| UNSPSC | 39121529 |
| E-Number (Sweden) | 3210081 |

| Where Used (as a spare part for "Products") | | | |
|---|--------------------------|----------|--------------------|
| Identifier | Description | Quantity | Unit Of Measure |
| ACS 2000 | No Description Available | 1 | piece |

| Product specific part data | | |
|----------------------------|----------|------------------------------|
| Product | Category | Drive Part Category |
| ACS 2000 | ACS2000 | Switches, Relays, Contactors |

Categories

 $\label{eq:low-Voltage-Products} Low \mbox{ Voltage Products and Systems} \rightarrow \mbox{Control Products} \rightarrow \mbox{Contactors} \rightarrow \mbox{Mini Contactors}$ $\mbox{Drives} \rightarrow \mbox{Medium voltage AC drives} \rightarrow \mbox{Industrial drives} \rightarrow \mbox{ACS2000}$

