



PRODUCT-DETAILS

BC6-30-01-P-2.4-51

BC6-30-01-P-2.4-51 Mini Contactor 17 ... 32 V  
DC - 3 NO - 0 NC - Soldering Pins



| General Information    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type  | BC6-30-01-P-2.4-51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID             | GJL1213009R5011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| EAN                    | 4013614053405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Catalog Description    | BC6-30-01-P-2.4-51 Mini Contactor 17 ... 32 V DC - 3 NO - 0 NC - Soldering Pins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Long Description       | The BC6-30-01-P mini contactor is a compact 3 pole contactor with 1 auxiliary contact and soldering pins. 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 12 A (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 and a <u>switch position indication.</u> |
| Ordering               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Minimum Order Quantity | 1 piece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Customs Tariff Number  | 85365080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Popular Downloads     |                 |
|-----------------------|-----------------|
| Data Sheet, Technical | 1SBC100214C0202 |

|                          |                 |
|--------------------------|-----------------|
| Information              |                 |
| Instructions and Manuals | 2CDC102047M6801 |
| CAD Dimensional Drawing  | 2CDC001079B0201 |
| Dimension Diagram        | GJL1200438F0001 |

Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 47.5 mm |
| Product Net Height         | 45.2 mm |
| Product Net Depth / Length | 47.7 mm |
| Product Net Weight         | 0.17 kg |

Technical

|                                                                   |                                                                                                                                                        |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Poles                                                   | 3                                                                                                                                                      |
| Mini Contactor Type                                               | Interface Mini Contactor                                                                                                                               |
| Rated Operational Voltage                                         | Auxiliary Circuit 690 V AC<br>Auxiliary Circuit 250 V DC<br>Main Circuit 690 V AC<br>Main Circuit 220 V DC                                             |
| Rated Frequency (f)                                               | Control Circuit DC<br>Main Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit DC                                                                      |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | Auxiliary Circuit 6 kV<br>Main Circuit 6 kV                                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> )                        | 690 V<br>acc. to UL/CSA 600 V                                                                                                                          |
| Number of Main Contacts NC                                        | 0                                                                                                                                                      |
| Number of Main Contacts NO                                        | 3                                                                                                                                                      |
| Rated Operational Current AC-1 (I <sub>e</sub> )                  | (220 / 240 V) 40 °C 12 A<br>(220 / 240 V) 55 °C 12 A<br>(380 / 440 V) 40 °C 12 A<br>(380 / 440 V) 55 °C 12 A<br>(690 V) 40 °C 6 A<br>(690 V) 55 °C 6 A |
| Rated Operational Power AC-3 (P <sub>e</sub> )                    | (230 V) Three Phase 2.2 kW<br>(400 V) Three Phase 4 kW<br>(500 V) Three Phase 4 kW<br>(690 V) Three Phase, NO 3 kW                                     |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ) | 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 <sub>e</sub> )                 | (24 V) 4 A<br>(120 V) 4 A<br>(500 V) 2 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                     |
| Rated Operational Current DC-13 (I <sub>e</sub> )                 | (24 V) 2.5 A<br>(110 V) 0.7 A<br>(220 / 240 V) 0.4 A                                                                                                   |
| Conventional Free-air Thermal Current (I <sub>th</sub> )          | Main Circuit 12 A                                                                                                                                      |
| Rated Control Circuit Voltage (U <sub>c</sub> )                   | 17 ... 32 V DC                                                                                                                                         |
| Coil Operating Limits                                             | (acc. to IEC 60947-4-1) for DC supply U <sub>c</sub> Min. ... U <sub>c</sub> Max. (at θ ≤ 55 °C)                                                       |
| Degree of Protection                                              | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20                                                                                     |

|                                        |                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | Main Circuit Terminals IP20                                                                                                                                                        |
| Mechanical Durability                  | 10000000 cycle                                                                                                                                                                     |
| Minimum Switching Capacity             | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA                                                                                                                                   |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour<br>(AC-15) 600 cycles per hour<br>(AC-3) 600 cycles per hour<br>(DC-1) 600 cycles per hour<br>(DC-13) 600 cycles per hour<br>(DC-3) 600 cycles per hour |
| Mounting on DIN Rail                   | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                     |
| Power Loss                             | at Rated Operating Conditions AC-1 per Pole 1 W                                                                                                                                    |
| Standards                              | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1                                                                                               |
| Remarks                                | No CA6 or CAF6 mountable                                                                                                                                                           |

Technical UL/CSA

|                                  |                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC                                                                                                                                                                                                  |
| Full Load Amps Motor Use         | (115 V AC) Single Phase 5.8 A<br>(200 V AC) Three Phase 4.8 A<br>(220 ... 240 V AC) Three Phase 6.8 A<br>(230 V AC) Single Phase 4.9 A<br>(440 ... 480 V AC) Three Phase 4.8 A<br>(550 ... 600 V AC) Three Phase 1.7 A |
| Horsepower Rating UL/CSA         | (115 V AC) Single Phase 0.25 Hp<br>(200 V AC) Three Phase 1 Hp<br>(220 ... 240 V AC) Three Phase 2 Hp<br>(230 V AC) Single Phase 0.5 Hp<br>(440 ... 480 V AC) Three Phase 3 Hp<br>(550 ... 600 V AC) Three Phase 1 Hp  |
| General Use Rating UL/CSA        | (300 V AC) 8 A                                                                                                                                                                                                         |
| Contact Rating UL/CSA            | A600                                                                                                                                                                                                                   |

Environmental

|                                            |                                                    |
|--------------------------------------------|----------------------------------------------------|
| Ambient Air Temperature                    | Operation -20 ... +55 °C<br>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                   | 5g 5 ... 150 Hz                                    |

Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                           | 2CMT2021-006202                                                        |
| RoHS Information                            | 2CMT2021-006277                                                        |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006525                                                        |
| WEEE B2C / B2B                              | Business To Business                                                   |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |

| Certificates and Declarations       |                     |
|-------------------------------------|---------------------|
| BV Certificate                      | 1SAA920000-0204     |
| CB Certificate                      | 1SAA938000-2002     |
| CQC Certificate                     | CQC2003010304064033 |
| cURus Certificate                   | cUL_E191658         |
| Declaration of Conformity<br>- CCC  | 2020980304001854    |
| Declaration of Conformity<br>- CE   | 1SAD101100-3101     |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3101     |
| DNV GL Certificate                  | 1SAA938000-0306     |
| EAC Certificate                     | 1SAA920000-2702     |
| KC Certificate                      | 1SAA938000-1501     |
| LR Certificate                      | 1SAA938000-0504     |
| RMRS Certificate                    | 1SAA938000-0704     |

| Container Information             |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | 10 piece      |
| Package Level 1 Width             | 108 mm        |
| Package Level 1 Height            | 69 mm         |
| Package Level 1 Depth /<br>Length | 247 mm        |
| Package Level 1 Gross<br>Weight   | 1.775 kg      |
| Package Level 1 EAN               | 4013614415166 |

| 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  |
| ETIM 8                                | EC000066 - Power contactor, AC switching  |
| eClass                                | V11.0 : 27371003                          |
| UNSPSC                                | 39121529                                  |
| IDEA Granular Category<br>Code (IGCC) | 4763 >> Power contactor, DC switching     |

| Categories                                                                         |
|------------------------------------------------------------------------------------|
| Low Voltage Products and Systems → Control Products → Contactors → Mini Contactors |

