



PRODUCT-DETAILS

BC7-30-10-F-1.4-81

BC7-30-10-F-1.4-81 Mini Contactor 24 V DC - 3 NO - 0 NC - Flat-Pin Connections



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | BC7-30-10-F-1.4-81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product ID            | GJL1313003R8101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EAN                   | 4013614153945                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Catalog Description   | BC7-30-10-F-1.4-81 Mini Contactor 24 V DC - 3 NO - 0 NC - Flat-Pin Connections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Long Description      | The BC7-30-10-F mini contactor is a compact 3 pole contactor with 1 auxiliary contact and flat pin connector. 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 5.5 kW (AC-3) and 20 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, 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 | 1SBC100214C0202 |
| Instructions and Manuals          | 2CDC102047M6801 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |
| Dimension Diagram                 | GJL1200437F0001 |

| Dimensions                 |         |
|----------------------------|---------|
| Product Net Width          | 52.5 mm |
| Product Net Height         | 57.5 mm |
| Product Net Depth / Length | 46.7 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 50 Hz<br>Main Circuit 60 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 20 A<br>(220 / 240 V) 55 °C 16 A<br>(380 / 440 V) 40 °C 20 A<br>(380 / 440 V) 55 °C 16 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 3 kW<br>(400 V) Three Phase 5.5 kW<br>(500 V) Three Phase 5.5 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 96 A                                                                                        |
| Number of Auxiliary Contacts NC                                   | 0                                                                                                                                                      |
| Number of Auxiliary Contacts NO                                   | 1                                                                                                                                                      |
| 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 20 A                                                                                                                                                                  |
| Rated Control Circuit Voltage (U <sub>c</sub> )          | 24 V DC                                                                                                                                                                            |
| Coil Operating Limits                                    | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)                                                                                                 |
| Degree of Protection                                     | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>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 1.4 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 13.8 A<br>(200 V AC) Three Phase 7.8 A<br>(220 ... 240 V AC) Three Phase 9.6 A<br>(230 V AC) Single Phase 10 A<br>(440 ... 480 V AC) Three Phase 7.6 A<br>(550 ... 600 V AC) Three Phase 6.1 A |
| Horsepower Rating UL/CSA         | (115 V AC) Single Phase 0.75 Hp<br>(200 V AC) Three Phase 2 Hp<br>(220 ... 240 V AC) Three Phase 3 Hp<br>(230 V AC) Single Phase 1.5 Hp<br>(440 ... 480 V AC) Three Phase 5 Hp<br>(550 ... 600 V AC) Three Phase 5 Hp  |
| General Use Rating UL/CSA        | (600 V AC) 16 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 - CCC  |  | 2020980304001854    |
| Declaration of Conformity - CE   |  | 1SAD101100-3101     |
| Declaration of Conformity - UKCA |  | 1SAD201100-3101     |
| DNV GL Certificate               |  | 1SAA938000-0306     |
| EAC Certificate                  |  | 1SAA920000-2702     |
| KC Certificate                   |  | 1SAA938000-1501     |
| LR Certificate                   |  | 1SAA938000-0504     |
| RMRS Certificate                 |  | 1SAA938000-0704     |
| UL Certificate                   |  | E191658-19880915    |

| Container Information          |  |               |
|--------------------------------|--|---------------|
| 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   |  | 1.77 kg       |
| Package Level 1 EAN            |  | 4013614418594 |

| 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     | 4763 >> Power contactor, DC switching     |                  |

Code (IGCC)

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**Categories**

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

