

# Detailed information for: BC6-30-10-F-01

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Data Sheet

Documentation

## BC6-30-10-F-01

### General Information

**Extended Product Type:** BC6-30-10-F-01

**Product ID:** GJL1213003R0101

**EAN:** 4013614053160

**Catalog Description:** BC6-30-10-F-01 Mini Contactor 24VDC

**Long Description:** The BC6-30-10-F mini contactor is a compact 3 pole contactor with 1 auxiliary contact and flat pin connection. 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.

### Categories

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



### + Accessories

### Ordering

**Minimum Order Quantity:** 1 piece

**Customs Tariff Number:** 85365080

### Popular Downloads

**Data Sheet, Technical Information:** [1SBC100173C0201](#)

**Dimension Diagram:** [GJL1200437F0001](#)

### Dimensions

|                                                                |                                                                                                                                                        |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Net Width:</b>                                      | 52.5 mm                                                                                                                                                |
| <b>Product Net Height:</b>                                     | 57.5 mm                                                                                                                                                |
| <b>Product Net Depth:</b>                                      | 46.5 mm                                                                                                                                                |
| <b>Product Net Weight:</b>                                     | 0.17 kg                                                                                                                                                |
| <b>Technical</b>                                               |                                                                                                                                                        |
| <b>Number of Poles:</b>                                        | 4                                                                                                                                                      |
| <b>Mini Contactor Type:</b>                                    | Mini Contactor                                                                                                                                         |
| <b>Rated Operational Voltage:</b>                              | Auxiliary Circuit 12 ... 240 V DC<br>Auxiliary Circuit 12 ... 500 V AC/DC<br>Main Circuit 12 ... 690 V AC/DC<br>Main Circuit 690 V AC                  |
| <b>Rated Frequency (f):</b>                                    | Control Circuit DC<br>Main Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit DC                                                                      |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>      | Auxiliary Circuit 6 kV<br>Main Circuit 6 kV                                                                                                            |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>               | 690 V<br>acc. to UL/CSA 600 V                                                                                                                          |
| <b>Number of Main Contacts NC:</b>                             | 0                                                                                                                                                      |
| <b>Number of Main Contacts NO:</b>                             | 3                                                                                                                                                      |
| <b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>         | (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 |
| <b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>           | (220 / 230 / 240 V) 2.2 kW<br>(400 V) 4 kW<br>(400 V) Three Phase 4 kW<br>(440 V) 4 kW<br>(500 V) 4 kW<br>(690 V) 3 kW                                 |
| <b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>    | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A                                                                                        |
| <b>Number of Auxiliary Contacts NC:</b>                        | 0                                                                                                                                                      |
| <b>Number of Auxiliary Contacts NO:</b>                        | 1                                                                                                                                                      |
| <b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>        | (120 V) 4 A<br>(220 / 240 V) 4 A<br>(24 V) 4 A<br>(380 / 400 V) 3 A<br>(500 V) 2 A                                                                     |
| <b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>        | (110 V) 0.7 A<br>(220 / 240 V) 0.4 A<br>(24 V) 2.5 A                                                                                                   |
| <b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b> | Main Circuit 20 A                                                                                                                                      |
| <b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>          | 24 V DC                                                                                                                                                |
| <b>Coil Operating Limits:</b>                                  | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)                                                                     |
| <b>Degree of Protection:</b>                                   | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20                                                      |

|                                                |                                                                                                                                                                        |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mechanical Durability:</b>                  | 10000000 cycle                                                                                                                                                         |
| <b>Minimum Switching Capacity:</b>             | 17 V<br>5 mA                                                                                                                                                           |
| <b>Maximum Electrical Switching Frequency:</b> | 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 |
| <b>Mounting on DIN Rail:</b>                   | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                         |
| <b>Power Loss:</b>                             | at Rated Operating Conditions per Pole 2 W                                                                                                                             |
| <b>Standards:</b>                              | 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                                                                                   |

Environmental

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| <b>Ambient Air Temperature:</b>                | Operation -25 ... +55 °C<br>Storage -40 ... +80 °C |
| <b>Maximum Operating Altitude Permissible:</b> | 2000 m                                             |

|                                                    |                 |
|----------------------------------------------------|-----------------|
| <b>Resistance to Shock acc. to IEC 60068-2-27:</b> | 11 ms Pulse 15g |
|----------------------------------------------------|-----------------|

|                                                        |                   |
|--------------------------------------------------------|-------------------|
| <b>Resistance to Vibrations acc. to IEC 60068-2-6:</b> | 5g / 5 ... 150 Hz |
|--------------------------------------------------------|-------------------|

|                     |                                   |
|---------------------|-----------------------------------|
| <b>RoHS Status:</b> | Following EU Directive 2011/65/EU |
|---------------------|-----------------------------------|

Technical UL/CSA

|                                          |                                                                                                                                                                                            |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum Operating Voltage UL/CSA:</b> | Main Circuit 600 V AC<br>Auxiliary Circuit 600 V AC/DC                                                                                                                                     |
| <b>Full Load Amps Motor Use:</b>         | (240 V AC) Single Phase 4.9 A<br>(440 ... 480 V AC) Three Phase 4.8 A                                                                                                                      |
| <b>Horsepower Rating UL/CSA:</b>         | (208 V AC) Three Phase 1 Hp<br>(220 ... 240 V AC) Single Phase 0.5 Hp<br>(220 ... 240 V AC) Three Phase 2 Hp<br>(440 ... 480 V AC) Three Phase 3 Hp<br>(550 ... 600 V AC) Three Phase 1 Hp |
| <b>General Use Rating UL/CSA:</b>        | (300 V AC) 12 A                                                                                                                                                                            |

Certificates and Declarations (Document Number)

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| <b>BV Certificate:</b>                 | <a href="#"><u>1SAA920000-0204</u></a> |
| <b>CB Certificate:</b>                 | <a href="#"><u>1SAA938000-2002</u></a> |
| <b>CCC Certificate:</b>                | <a href="#"><u>1SAA938001-3804</u></a> |
| <b>cUL Certificate:</b>                | <a href="#"><u>cUL E191658</u></a>     |
| <b>Declaration of Conformity - CE:</b> | <a href="#"><u>1SAD938512-0001</u></a> |
| <b>DNV GL Certificate:</b>             | <a href="#"><u>1SAA938000-0306</u></a> |
| <b>EAC Certificate:</b>                | <a href="#"><u>1SAA920000-2702</u></a> |
| <b>Instructions and Manuals:</b>       | <a href="#"><u>2CDC102047M6801</u></a> |
| <b>KC Certificate:</b>                 | <a href="#"><u>1SAA938000-1501</u></a> |
| <b>LR Certificate:</b>                 | <a href="#"><u>1SAA938000-0504</u></a> |
| <b>RMRS Certificate:</b>               | <a href="#"><u>1SAA938000-0704</u></a> |

|                   |                        |
|-------------------|------------------------|
| RoHS Information: | <u>1SAD938512-0001</u> |
|-------------------|------------------------|

Container Information

|                               |               |
|-------------------------------|---------------|
| Package Level 1 Units:        | 10 piece      |
| Package Level 1 Width:        | 115 mm        |
| Package Level 1 Height:       | 54 mm         |
| Package Level 1 Length:       | 280 mm        |
| Package Level 1 Gross Weight: | 1.77 kg       |
| Package Level 1 EAN:          | 4013614414893 |

Classifications

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Object Classification Code: | Q                                         |
| E-nummer:                   | 3210063                                   |
| ETIM 4:                     | EC000066 - Magnet contactor, AC-switching |
| ETIM 5:                     | EC000066 - Magnet contactor, AC-switching |
| ETIM 6:                     | EC000066 - Power contactor, AC switching  |
| eClass:                     | 7.0 27371003                              |
| UNSPSC:                     | 39121529                                  |

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