



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

This page contains technical data sheet, documents library and links to offering related to this product. If you require any other information, please contact us using form located at the bottom of the page.

# BC6-30-10-01

## General Information

|                               |  |
|-------------------------------|--|
| <b>Extended Product Type:</b> | BC6-30-10-01   |
| <b>Product ID:</b>            | GJL1213001R0101  |
| <b>EAN:</b>                   | 4013614052880  |
| <b>Catalog Description:</b>   | BC6-30-10-01 Mini Contactor 24VDC  |
| <b>Long Description:</b>      | 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 buldings, 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

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing 36

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing Air

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Ring Main Units » SafeRing AirPlus

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Secondary Switchgear » SafePlus

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Secondary Switchgear » SafePlus 36

Parts & Services » Medium Voltage Products and Systems » Switchgear and Motor Control » Secondary Switchgear » Gas Insulated Secondary Switchgear » SafePlus Air

## Ordering

|                                |          |
|--------------------------------|----------|
| <b>Minimum Order Quantity:</b> | 1 piece  |
| <b>Customs Tariff Number:</b>  | 85365080 |

## Popular Downloads

|   |                                 |
|---|---------------------------------|
| <b>Data Sheet, Technical Information:</b> | <a href="#">1SBC100173C0201</a> |
| <b>Instructions and Manuals:</b>          | <a href="#">2CDC102047M6801</a> |
| <b>Dimension Diagram:</b>                 | <a href="#">GJL1200436F0001</a> |

## 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 |

**Product Net Weight:** 0.175 kg

## Technical

**Number of Poles:** 4

**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 Thermal Current ( $I_{th}$ ):** 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 $\theta \leq 55$ °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>Connecting Capacity Main Circuit:</b>              | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| <b>Connecting Capacity Auxiliary Circuit:</b>         | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| <b>Connecting Capacity Control Circuit:</b>           | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| <b>Wire Stripping Length:</b>                         | Auxiliary Circuit 9 mm<br>Main Circuit 9 mm   |
| <b>Tightening Torque:</b>                             | Auxiliary Circuit 0.8 ... 1.1 N·m<br>Control Circuit 0.8 ... 1.1 N·m<br>Main Circuit 0.8 ... 1.1 N·m  |
| <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  |
| <b>Environmental</b>                                  |   |
| <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   |

**Resistance to Vibrations acc. to IEC 60068-2-6:** 5g / 5 ... 150 Hz

**RoHS Status:** Following EU Directive 2011/65/EU

### Technical UL/CSA

**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

### Certificates and Declarations (Document Number)

**BV Certificate:** [1SAA920000-0204](#)

**CB Certificate:** [1SAA938000-2002](#)

**CCC Certificate:** [1SAA938001-3804](#)

**cUL Certificate:** [cUL E191658](#)

**Declaration of Conformity - CE:** [1SAD938512-0001](#)

**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:** [1SAD938512-0001](#)

### 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:** 1.82 kg

**Package Level 1 EAN:** 4013614414541

### Classifications

**Object Classification Code: Q**

|                  |   |
|------------------|---|
| <b>E-nummer:</b> | 3210051                                   |
| <b>ETIM 4:</b>   | EC000066 - Magnet contactor, AC-switching |
| <b>ETIM 5:</b>   | EC000066 - Magnet contactor, AC-switching |
| <b>ETIM 6:</b>   | EC000066 - Power contactor, AC switching  |
| <b>ETIM 7:</b>   | EC000066 - Power contactor, AC switching  |
| <b>eClass:</b>   | 7.0 27371003                              |
| <b>UNSPSC:</b>   | 39121529                                  |

**Accessories**

| Identifier             | Type     | Unit Of Measure | Qty | Description                |
|------------------------|----------|-----------------|-----|----------------------------|
| <u>GJL1201317R0002</u> | CA6-11E  | piece           | 1   | CA6-11E Auxiliary Contact  |
| <u>GJL1201317R0003</u> | CA6-11M  | piece           | 1   | CA6-11M Auxiliary Contact  |
| <u>GJL1201317R0004</u> | CA6-11N  | piece           | 1   | CA6-11N Auxiliary Contact  |
| <u>GJL1201330R0002</u> | CAF6-11E | piece           | 1   | CAF6-11E Auxiliary Contact |
| <u>GJL1201330R0003</u> | CAF6-11M | piece           | 1   | CAF6-11M Auxiliary Contact |
| <u>GJL1201330R0004</u> | CAF6-11N | piece           | 1   | CAF6-11N Auxiliary Contact |
| <u>GJL1201330R0006</u> | CAF6-20E | piece           | 1   | CAF6-20E Auxiliary Contact |
| <u>GJL1201330R0007</u> | CAF6-20M | piece           | 1   | CAF6-20M Auxiliary Contact |
| <u>GJL1201330R0008</u> | CAF6-20N | piece           | 1   | CAF6-20N Auxiliary Contact |
| <u>GJL1201330R0010</u> | CAF6-02E | piece           | 1   | CAF6-02E Auxiliary Contact |
| <u>GJL1201330R0011</u> | CAF6-02M | piece           | 1   | CAF6-02M Auxiliary Contact |
| <u>GJL1201330R0012</u> | CAF6-02N | piece           | 1   | CAF6-02N Auxiliary Contact |
| <u>GJL1201904R0001</u> | BN6      | piece           | 1   | BN6 Plunger                |
| <u>GJL1201906R0001</u> | LT6-B    | piece           | 1   | LT6-B Cover Cap            |
| <u>GJL1201907R0001</u> | LP6      | piece           | 1   | LP6 Connecting Link        |

