

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

## General Information

|                               |  |
|-------------------------------|--|
| <b>Extended Product Type:</b> | B7-30-01-84  |
| <b>Product ID:</b>            | GJL1311001R8014  |
| <b>EAN:</b>                   | 4013614152511  |
| <b>Catalog Description:</b>   | B7-30-01-84 Mini Contactor 110-127V 40-450Hz   |
| <b>Long Description:</b>      | The B7-30-01 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 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting. |

## Ordering

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

## Popular Downloads

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

## Dimensions

|                                    |          |
|------------------------------------|----------|
| <b>Product Net Width:</b>          | 52.5 mm  |
| <b>Product Net Height:</b>         | 57.5 mm  |
| <b>Product Net Depth / Length:</b> | 46.5 mm  |
| <b>Product Net Weight:</b>         | 0.175 kg |

## Technical

|                                   |   |
|-----------------------------------|---|
| <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 |

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| <b>Rated Frequency (f):</b>                                    | Control Circuit 400 Hz<br>Control Circuit 50 Hz<br>Control Circuit 60 Hz<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) 3 kW<br>(400 V) 5.5 kW<br>(400 V) Three Phase 5.5 kW<br>(440 V) 5.5 kW<br>(500 V) 5.5 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 96 A  |
| <b>Number of Auxiliary Contacts NC:</b>                        | 1  |
| <b>Number of Auxiliary Contacts NO:</b>                        | 0  |
| <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>          | 110 ... 127 V AC   |
| <b>Coil Operating Limits:</b>                                  | (acc. to IEC 60947-4-1) for AC 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   |

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| <b>Minimum Switching Capacity:</b>             | Auxiliary Circuit 17 V<br>Auxiliary Circuit 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  |

## Environmental

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| <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

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| <b>Maximum Operating Voltage UL/CSA:</b>             | Main Circuit 600 V AC  |
| <b>Full Load Amps Motor Use:</b>                     | (240 V AC) Single Phase 10 A<br>(440 ... 480 V AC) Three Phase 7.6 A   |
| <b>Horsepower Rating UL/CSA:</b>                     | (208 V AC) Three Phase 3 Hp<br>(220 ... 240 V AC) Single Phase 1.5 Hp<br>(220 ... 240 V AC) Three Phase 3 Hp<br>(440 ... 480 V AC) Three Phase 5 Hp<br>(550 ... 600 V AC) Three Phase 5 Hp |
| <b>General Use Rating UL/CSA:</b>                    | (600 V AC) 16 A  |
| <b>Connecting Capacity Main Circuit UL/CSA:</b>      | Stranded 1/2x 22-10 AWG  |
| <b>Connecting Capacity Auxiliary Circuit UL/CSA:</b> | Stranded 1/2x 22-10 AWG  |
| <b>Tightening Torque UL/CSA:</b>                     | Auxiliary Circuit 7 in·lb<br>Control Circuit 7 in·lb<br>Main Circuit 7 in·lb   |

## Certificates and Declarations (Document Number)

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

## Container Information

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|--|---------------|
| <b>Package Level 1 Units:</b>          | 10 piece      |
| <b>Package Level 1 Width:</b>          | 115 mm        |
| <b>Package Level 1 Height:</b>         | 54 mm         |
| <b>Package Level 1 Depth / Length:</b> | 280 mm        |
| <b>Package Level 1 Gross Weight:</b>   | 1.82 kg       |
| <b>Package Level 1 EAN:</b>            | 4013614416613 |

## Classifications

|                                    |   |
|------------------------------------|---|
| <b>Object Classification Code:</b> | Q   |
| <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

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

