

# B6-40-00-80

## General Information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extended Product Type:</b> | B6-40-00-80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product ID:</b>            | GJL1211201R8000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>EAN:</b>                   | 4013614153105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Catalog Description:</b>   | B6-40-00-80 Mini Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Long Description:</b>      | The B6-40-00 mini contactor is a compact 4 pole contactor with 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 4 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. |

## Categories

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

## Ordering

|                                |               |
|--------------------------------|---------------|
| <b>EAN:</b>                    | 4013614153105 |
| <b>Minimum Order Quantity:</b> | 1 piece       |
| <b>Customs Tariff Number:</b>  | 85365080      |

## 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> | 0.175 kg |

## Container Information

|                                      |               |
|--------------------------------------|---------------|
| <b>Package Level 1 Units:</b>        | 10 piece      |
| <b>Package Level 1 Width:</b>        | 115.0 mm      |
| <b>Package Level 1 Height:</b>       | 54.0 mm       |
| <b>Package Level 1 Length:</b>       | 280.0 mm      |
| <b>Package Level 1 Gross Weight:</b> | 1.820 kg      |
| <b>Package Level 1 EAN:</b>          | 4013614413216 |

## Technical

|                                                             |                                                                                                                                    |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Poles:</b>                                     | 4                                                                                                                                  |
| <b>Mini Contactor Type:</b>                                 | Mini Contactor                                                                                                                     |
| <b>Rated Operational Voltage (U<sub>e</sub>):</b>           | Main Circuit 12 ... 690 V AC                                                                                                       |
| <b>Rated Frequency (f<sub>r</sub>):</b>                     | Control Circuit 50 / 60 / 400 Hz<br>Main Circuit DC<br>Main Circuit 50/60 Hz                                                       |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>   | Main Circuit 6 kV                                                                                                                  |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>            | 690 V                                                                                                                              |
| <b>Number of Main Contacts NC:</b>                          | 0                                                                                                                                  |
| <b>Number of Main Contacts NO:</b>                          | 4                                                                                                                                  |
| <b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>      | (220/240V) 40°C 20 A<br>(380/440V) 40°C 20 A<br>(690V) 40°C 6 A<br>(220/240V) 55°C 16 A<br>(380/440V) 55°C 16 A<br>(690V) 55°C 6 A |
| <b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>        | (220 / 230 / 240V) 2.2 kW<br>(400V) 4 kW<br>(440V) 4 kW<br>(500V) 4 kW<br>(690V) 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 10s 64 A                                                                      |
| <b>Number of Auxiliary Contacts NC:</b>                     | 0                                                                                                                                  |
| <b>Number of Auxiliary Contacts NO:</b>                     | 0                                                                                                                                  |
| <b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>       | 220 ... 240 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 $\theta \leq 55^\circ\text{C}$ )                           |
| <b>Degree of Protection:</b>                                | IP20                                                                                                                               |
| <b>Mechanical Durability:</b>                               | 10000000 cycle                                                                                                                     |
| <b>Maximum Electrical Switching Frequency:</b>              | AC-1 300 cycles per hour<br>AC-3 600 cycles per hour<br>AC-15 600 cycles per hour                                                  |

|                                             |                                                                                                                                                                                                         |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | DC-13 600 cycles per hour<br>DC-3 600 cycles per hour<br>DC-1 600 cycles per hour                                                                                                                       |
| <b>Connecting Capacity-Main Circuit:</b>    | Rigid 1/2x 1 ... 4 mm <sup>2</sup><br>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> |
| <b>Connecting Capacity-Control Circuit:</b> | Rigid 1/2x 1 ... 4 mm <sup>2</sup><br>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> |
| <b>Wire Stripping Length:</b>               | Main Circuit 9 mm                                                                                                                                                                                       |
| <b>Tightening Torques:</b>                  | Main Circuit 0.8 ... 1.1 N·m<br>Control Circuit 0.8 ... 1.1 N·m                                                                                                                                         |
| <b>Mounting on DIN Rail:</b>                | 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                                                                                          |
| <b>Power Loss:</b>                          | Per Pole 2 W                                                                                                                                                                                            |
| <b>Standards:</b>                           | IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1, UL508, CSA 22.2 No. 14                                                                                                                              |

## 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 2002/95/EC August 18, 2005 and amendment |

## Technical UL/CSA

|                                                 |                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum Operating Voltage UL/CSA:</b>        | Main Circuit 600 V AC                                                                                                                |
| <b>Connecting Capacity-Main Circuit UL/CSA:</b> | Stranded 1/2x 22 ... 10 AWG                                                                                                          |
| <b>Horse Power Rating UL/CSA:</b>               | 208V AC Three Phase 1 Hp<br>220 ... 240V AC Three Phase 2 Hp<br>440 ... 480V AC Three Phase 3 Hp<br>550 ... 600V AC Three Phase 1 Hp |
| <b>Tightening Torques UL/CSA:</b>               | Main Circuit 7 in·lb<br>Control Circuit 7 in·lb                                                                                      |
| <b>General Use Rating UL/CSA:</b>               | 300V AC 16 A                                                                                                                         |

## Certificates and Declarations (Document Number)

|                                        |                                 |
|----------------------------------------|---------------------------------|
| <b>BV Certificate:</b>                 | <a href="#">1SAA938000-0203</a> |
| <b>CB Certificate:</b>                 | <a href="#">1SAA938000-2002</a> |
| <b>CCC Certificate:</b>                | <a href="#">1SAA938001-3804</a> |
| <b>CSA Certificate:</b>                | <a href="#">1SAA938000-1102</a> |
| <b>cUL Certificate:</b>                | <a href="#">1SAA938003-1701</a> |
| <b>Declaration of Conformity - CE:</b> | <a href="#">1SAD938509-0001</a> |
| <b>DNV Certificate:</b>                | <a href="#">1SAA938000-0304</a> |
| <b>GL Certificate:</b>                 | <a href="#">1SAA938000-0403</a> |
| <b>GOST Certificate:</b>               | <a href="#">1SAA920000-2701</a> |
| <b>LR Certificate:</b>                 | <a href="#">1SAA938000-0503</a> |
| <b>RMRS Certificate:</b>               | <a href="#">1SAA938000-0703</a> |
| <b>UL Certificate:</b>                 | <a href="#">1SAA938000-1604</a> |

## Classifications

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| <b>Object Classification Code:</b> | Q                                         |
| <b>E-number:</b>                   | E3210044                                  |
| <b>ETIM 4.0:</b>                   | EC000066 - Magnet contactor, AC-switching |
| <b>ETIM 5.0:</b>                   | EC000066 - Magnet contactor, AC-switching |
| <b>UNSPSC:</b>                     | 39121529                                  |