



PRODUCT-DETAILS

B7-22-00-03

B7-22-00-03 Mini Contactor 48 V AC - 2 NO - 2 NC - Screw Terminals



General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | B7-22-00-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product ID            | GJL1311501R0003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EAN                   | 4013614285943                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Catalog Description   | B7-22-00-03 Mini Contactor 48 V AC - 2 NO - 2 NC - Screw Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Long Description      | The B7-22-00 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 5.5 kW (AC-3) and 20 A (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

|                        |          |
|------------------------|----------|
| 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        | GJL1200436F0001 |

Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 52.5 mm  |
| Product Net Height         | 57.5 mm  |
| Product Net Depth / Length | 46.7 mm  |
| Product Net Weight         | 0.175 kg |

Technical

|                                                                   |                                                                                                                                                        |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Poles                                                   | 4                                                                                                                                                      |
| Mini Contactor Type                                               | Mini Contactor                                                                                                                                         |
| Rated Operational Voltage                                         | Main Circuit 690 V AC<br>Main Circuit 220 V DC                                                                                                         |
| Rated Frequency (f)                                               | Control Circuit 400 Hz<br>Control Circuit 50 Hz<br>Control Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit 60 Hz<br>Main Circuit DC                |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 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                                        | 2                                                                                                                                                      |
| Number of Main Contacts NO                                        | 2                                                                                                                                                      |
| 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, NC 3 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                                   | 0                                                                                                                                                      |
| Conventional Free-air Thermal Current (I <sub>th</sub> )          | Main Circuit 20 A                                                                                                                                      |
| Rated Control Circuit Voltage (U <sub>c</sub> )                   | 48 V AC                                                                                                                                                |
| Coil Operating Limits                                             | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55\text{ °C}$ )                                                   |
| Degree of Protection                                              | Control Circuit Terminals IP20<br>Main Circuit Terminals IP20                                                                                          |
| Mechanical Durability                                             | 10000000 cycle                                                                                                                                         |
| Maximum Electrical Switching Frequency                            | (AC-1) 300 cycles per hour<br>(AC-3) 600 cycles per hour<br>(DC-1) 600 cycles per hour<br>(DC-3) 600 cycles per hour                                   |
| Connecting Capacity Main Circuit                                  | 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>                                 |

|                       |                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
|                       | Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm²                                                          |
| Connecting Capacity   | Flexible with Ferrule 1/2x 1 ... 2.5 mm²                                                                       |
| Control Circuit       | Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm²    |
| Wire Stripping Length | Main Circuit 9 mm                                                                                              |
| Tightening Torque     | Control Circuit 0.8 ... 1.1 N·m<br>Main Circuit 0.8 ... 1.1 N·m                                                |
| Recommended Screw     | M3                                                                                                             |
| Driver                | Pozidriv 1                                                                                                     |
| 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                           |

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                                                                                                                                                                                                        |
| Connecting Capacity Main Circuit UL/CSA | Stranded 1/2x 22-10 AWG                                                                                                                                                                                                |
| Tightening Torque UL/CSA                | Control Circuit 7 in·lb<br>Main Circuit 7 in·lb                                                                                                                                                                        |

Environmental

|                                            |                                                    |
|--------------------------------------------|----------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... +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 |
| Declaration of Conformity<br>- CCC  | 2020980304001854    |
| Declaration of Conformity<br>- CE   | 1SAD101100-3101     |
| Declaration of Conformity<br>- 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                      | E191658-19881208    |

| Container Information             |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | 10 piece      |
| Package Level 1 Width             | 115 mm        |
| Package Level 1 Height            | 54 mm         |
| Package Level 1 Depth /<br>Length | 280 mm        |
| Package Level 1 Gross<br>Weight   | 1.82 kg       |
| Package Level 1 EAN               | 4013614417221 |

| 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<br>Code (IGCC) | 4761 >> Magnet contactor, AC-switching    |

Accessories

| Identifier      | Description                                                | Type     | Quantity | Unit Of Measure |
|-----------------|------------------------------------------------------------|----------|----------|-----------------|
| GJL1201317R0002 | CA6-11E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals  | CA6-11E  | 1        | piece           |
| GJL1201317R0003 | CA6-11M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals  | CA6-11M  | 1        | piece           |
| GJL1201317R0004 | CA6-11N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals  | CA6-11N  | 1        | piece           |
| GJL1201330R0003 | CAF6-11M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-11M | 1        | piece           |
| GJL1201330R0006 | CAF6-20E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-20E | 1        | piece           |
| GJL1201330R0011 | CAF6-02M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-02M | 1        | piece           |
| GJL1201330R0007 | CAF6-20M Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-20M | 1        | piece           |
| GJL1201330R0012 | CAF6-02N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-02N | 1        | piece           |
| GJL1201330R0008 | CAF6-20N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-20N | 1        | piece           |
| GJL1201330R0002 | CAF6-11E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-11E | 1        | piece           |
| GJL1201330R0004 | CAF6-11N Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-11N | 1        | piece           |
| GJL1201330R0010 | CAF6-02E Auxiliary Contact - 0 NO - 0 NC - Screw Terminals | CAF6-02E | 1        | piece           |
| GJL1201906R0001 | LT6-B Cover cap - No Terminals                             | LT6-B    | 1        | piece           |
| GJL1201904R0001 | BN6 Plunger - No Terminals                                 | BN6      | 1        | piece           |

Categories

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

