



PRODUCT-DETAILS

VBC7A-30-01-05

VBC7A-30-01-05 Mini Reversing Contactor  
220 ... 240 V DC - 3 NO - 0 NC - Screw  
Terminals



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | VBC7A-30-01-05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product ID            | GJL1313911R0015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EAN                   | 4013614192388                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Catalog Description   | VBC7A-30-01-05 Mini Reversing Contactor 220 ... 240 V DC - 3 NO - 0 NC - Screw Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Long Description      | <p>The VBC7A-30-01 mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, screw terminals and mechanical interlock and safety blocking. They are ideally suited for applications where reliability is a must and space is at a premium.</p> <p>Mini reversing contactors are used in residential buldings, commercial buildings and industrial applications for the control of three-phase motor loads up to 5.5 kW (AC-3). Further features are the noiseless and hum-free coil, a a switch position indication and the integrated possibility for rail or wall mounting.</p> |

| Ordering               |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85365080 |

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals          | 2CDC102046M6801 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |
| Dimension Diagram                 | GJL1200447F0001 |

| Dimensions                 |          |
|----------------------------|----------|
| Product Net Width          | 96.2 mm  |
| Product Net Height         | 57.5 mm  |
| Product Net Depth / Length | 46.7 mm  |
| Product Net Weight         | 0.355 kg |

| Technical                                                         |                                                                                                                                                        |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Poles                                                   | 3                                                                                                                                                      |
| Rated Operational Voltage                                         | Auxiliary Circuit 690 V AC<br>Auxiliary Circuit 250 V DC<br>Main Circuit 690 V AC<br>Main Circuit 220 V DC                                             |
| Rated Frequency (f)                                               | Main Circuit 60 Hz<br>Main Circuit 50 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                                        | 0                                                                                                                                                      |
| Number of Main Contacts NO                                        | 3                                                                                                                                                      |
| 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, 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                                   | 1                                                                                                                                                      |
| 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> )                   | 220 ... 240 V DC                                                                                                                                       |
| Coil Operating Limits                                             | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)                                                                     |
| Degree of Protection                                              | Main Circuit Terminals IP20                                                                                                                            |

|                                        |                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pollution Degree                       | 3                                                                                                                                                                                                       |
| Mechanical Durability                  | 10000000 cycle                                                                                                                                                                                          |
| Minimum Switching Capacity             | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA                                                                                                                                                        |
| Maximum Electrical Switching Frequency | (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                      |
| 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><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Connecting Capacity Auxiliary 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><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Connecting Capacity Control 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><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Wire Stripping Length                  | Auxiliary Circuit 9 mm<br>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 Driver               | M3<br>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                                                                                                                                                                                                        |
| Contact Rating UL/CSA                        | A600                                                                                                                                                                                                                   |
| 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<br>Control Circuit 7 in·lb<br>Main Circuit 7 in·lb                                                                                                                                           |

| Environmental                              |                                                    |
|--------------------------------------------|----------------------------------------------------|
| Ambient Air Temperature                    | Operation -20 ... +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    |                     |
|----------------------------------|---------------------|
| CB Certificate                   | 1SAA938000-2002     |
| CQC Certificate                  | CQC2003010304064033 |
| Declaration of Conformity - CCC  | 2020980304001854    |
| Declaration of Conformity - CE   | 1SAD101100-3101     |
| Declaration of Conformity - UKCA | 1SAD201100-3101     |
| DNV GL Certificate               | 1SAA938000-0306     |
| EAC Certificate                  | 1SAA920000-2702     |
| KC Certificate                   | 1SAA938000-1501     |
| RMRS Certificate                 | 1SAA938000-0704     |
| UL Certificate                   | E191658-19881208    |

| Container Information          |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 5 piece       |
| Package Level 1 Width          | 115 mm        |
| Package Level 1 Height         | 54 mm         |
| Package Level 1 Depth / Length | 280 mm        |
| Package Level 1 Gross Weight   | 1.845 kg      |
| Package Level 1 EAN            | 4013614419669 |

| Classifications            |   |
|----------------------------|---|
| Object Classification Code | Q |

|        |                                           |
|--------|-------------------------------------------|
| ETIM 4 | EC000066 - Magnet contactor, AC-switching |
| ETIM 5 | EC000010 - Starter combination            |
| ETIM 6 | EC000010 - Combination of contactors      |
| ETIM 7 | EC000010 - Combination of contactors      |
| ETIM 8 | EC000010 - Combination of contactors      |
| eClass | V11.0 : 27371009                          |
| UNSPSC | 39121529                                  |

Categories

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

