

## PRODUCT-DETAILS

# VBC7A-30-01-P-01

## VBC7A-30-01-P-01 Mini Rev.Contactor 24VDC



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | VBC7A-30-01-P-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product ID            | GJL1313919R0011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EAN                   | 4013614217524                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Catalog Description   | VBC7A-30-01-P-01 Mini Rev.Contactor 24VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Long Description      | <p>The VBC7A-30-01-P mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, soldering pins and mechanical interlock and safety blocking. They are ideally suited for applications where reliability is a must and space is at a premium. Mini reversing contactors are used in residential buildings, 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 switch position indication and the integrated possibility for rail mounting.</p> |

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0201 |
| Instructions and Manuals          | 2CDC102046M6801 |

## Dimension Diagram

GJL1200449F0001

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 96.5 mm  |
| Product Net Height         | 57.5 mm  |
| Product Net Depth / Length | 51.5 mm  |
| Product Net Weight         | 0.345 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 ( $U_{imp}$ )      | Main Circuit 6 kV                                                                                                                                      |
| Rated Insulation Voltage ( $U_i$ )                 | 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 ( $I_e$ )           | (220 / 240 V) 40 °C 12 A<br>(220 / 240 V) 55 °C 12 A<br>(380 / 440 V) 40 °C 12 A<br>(380 / 440 V) 55 °C 12 A<br>(690 V) 40 °C 6 A<br>(690 V) 55 °C 6 A |
| Rated Operational Power AC-3 ( $P_e$ )             | (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 ( $I_{cw}$ )    | 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 ( $I_{th}$ ) | Main Circuit 12 A                                                                                                                                      |
| Rated Control Circuit Voltage ( $U_c$ )            | 24 V DC                                                                                                                                                |
| Coil Operating Limits                              | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55$ °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 |
| Mounting on DIN Rail                   | 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                                                                     |
| Power Loss                             | at Rated Operating Conditions per Pole 2 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) 12 A                                                                                                                                                                                                        |

## 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 acc. to IEC 60068-2-6 | 5g / 5 ... 150 Hz                                  |
| RoHS Status                                    | Following EU Directive 2011/65/EU                  |

## Certificates and Declarations (Document Number)

|                                 |                     |
|---------------------------------|---------------------|
| BV Certificate                  | 1SAA920000-0204     |
| CB Certificate                  | 1SAA938000-2002     |
| CQC Certificate                 | CQC2003010304064033 |
| cULus Certificate               | cUL_E191658         |
| Declaration of Conformity - CCC | 2020980304001854    |
| Declaration of Conformity - CE  | 1SAD938516-0001     |
| DNV GL Certificate              | 1SAA938000-0306     |

|                           |                 |
|---------------------------|-----------------|
| EAC Certificate           | 1SAA920000-2702 |
| Environmental Information | 1SAC200068H0009 |
| Instructions and Manuals  | 2CDC102046M6801 |
| KC Certificate            | 1SAA938000-1501 |
| LR Certificate            | 1SAA938000-0504 |
| RMRS Certificate          | 1SAA938000-0704 |
| RoHS Information          | 1SAD938516-0001 |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 5 piece       |
| Package Level 1 Width          | 115 mm        |
| Package Level 1 Height         | 64 mm         |
| Package Level 1 Depth / Length | 280 mm        |
| Package Level 1 Gross Weight   | 1.795 kg      |
| Package Level 1 EAN            | 4013614419911 |

## 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      |
| eClass                     | V11.0 : 27371009                          |
| UNSPSC                     | 39121529                                  |

## Categories

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

