

PRODUCT-DETAILS

# VB7A-40-00-02

## VB7A-40-00-02 Mini Rev.Contactor 42V 40-450Hz



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | VB7A-40-00-02   |
| Product ID            | GJL1311911R0002   |
| EAN                   | 4013614480423   |
| Catalog Description   | VB7A-40-00-02 Mini Rev.Contactor 42V 40-450Hz   |
| Long Description      | The VB7A-40-00 mini reversing contactor is a compact 4 pole contactor with 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. 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 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 | 1SBC100214C0201 |
| Dimension Diagram                 | GJL1200447F0001 |

### Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 96.5 mm  |
| Product Net Height         | 57.5 mm  |
| Product Net Depth / Length | 46.5 mm  |
| Product Net Weight         | 0.355 kg |

## Technical

|   |  |
|---|--|
| Number of Poles                                 | 4  |
| 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)                             | Control Circuit 50 Hz<br>Control Circuit 60 Hz<br>Control Circuit 400 Hz<br>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                      | 4  |
| Rated Operational Current AC-1 ( $I_e$ )        | (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 ( $P_e$ )          | (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                 | 0  |
| Number of Auxiliary Contacts NO                 | 0  |
| Rated Control Circuit Voltage ( $U_c$ )         | 42 V AC  |
| Degree of Protection                            | 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                                   |
| 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 |

|                              |   |
|------------------------------|---|
|                              | (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<br>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<br>UL/CSA | (600 V AC) 16 A   |

## Environmental

|   |                                   |
|---|-----------------------------------|
| Maximum Operating<br>Altitude Permissible         | 2000 m                            |
| Resistance to Shock acc.<br>to IEC 60068-2-27     | 11 ms Pulse 15g                   |
| Resistance to Vibrations<br>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<br>Conformity - CCC | 2020980304001854    |
| Declaration of<br>Conformity - CE  | 1SAD938516-0001     |
| DNV GL Certificate                 | 1SAA938000-0306     |
| EAC Certificate                    | 1SAA920000-2702     |
| Environmental<br>Information       | 1SAC200068H0009     |
| 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            | 54 mm         |
| Package Level 1 Depth /<br>Length | 280 mm        |
| Package Level 1 Gross<br>Weight   | 1.845 kg      |
| Package Level 1 EAN               | 4013614480430 |

## Classifications

|                               |   |
|-------------------------------|---|
| Object Classification<br>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                             |

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## Categories

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

