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PRODUCT-DETAILS

# VB6-30-01-P-80

## VB6-30-01-P-80 Mini Reversing Contactor 220 ... 240 V AC - 3 NO - 0 NC - Soldering Pins




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### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | VB6-30-01-P-80  |
| Product ID            | GJL1211909R8010   |
| EAN                   | 4013614153198   |
| Catalog Description   | VB6-30-01-P-80 Mini Reversing Contactor 220 ... 240 V AC - 3 NO - 0 NC - Soldering Pins   |
| Long Description      | The VB6-30-01-P mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, soldering pins and normal mechanical interlock. 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 4 kW (AC-3). Further features are the silent coil, a switch position indication and the integrated possibility for rail mounting. |

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### Ordering

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

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### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals          | 2CDC102046M6801 |

|                         |                 |
|-------------------------|-----------------|
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram       | GJL1200449F0001 |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 96.2 mm  |
| Product Net Height         | 57.5 mm  |
| Product Net Depth / Length | 47.7 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)   | Control Circuit 400 Hz<br>Control Circuit 50 Hz<br>Control Circuit 60 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                                  | 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 2.2 kW<br>(400 V) Three Phase 4 kW<br>(500 V) Three Phase 4 kW<br>(690 V) Three Phase, NO 3 kW                                     |
| Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 64 A  |
| Number of Auxiliary Contacts NC                             | 1  |
| Number of Auxiliary Contacts NO                             | 0  |
| Rated Operational Current AC-15 ( $I_e$ )                   | (440 V AC) 3 A<br>(24 V) 4 A<br>(120 V) 4 A<br>(240 V) 4 A<br>(500 V) 2 A<br>(380 / 400 V) 3 A   |

|   |  |
|---|--|
| Rated Operational Current<br>DC-13 ( $I_{\theta}$ )   | (24 V) 2.5 A<br>(110 V) 0.7 A<br>(220 / 240 V) 0.4 A   |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | Main Circuit 12 A  |
| Rated Control Circuit<br>Voltage ( $U_c$ )            | 220 ... 240 V AC   |
| Coil Operating Limits                                 | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ )<br>(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ ) |
| Degree of Protection                                  | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20  |
| Pollution Degree                                      | 3  |
| Mechanical Durability                                 | 10000000 cycle   |
| Minimum Switching<br>Capacity                         | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA   |
| Maximum Electrical<br>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                                  | TH35-15 (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 per Pole 2 W<br>at Rated Operating Conditions AC-1 per Pole 1 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<br>Voltage UL/CSA | Main Circuit 600 V AC  |
| Full Load Amps Motor<br>Use         | (115 V AC) Single Phase 5.8 A<br>(200 V AC) Three Phase 4.8 A<br>(220 ... 240 V AC) Three Phase 6.8 A<br>(230 V AC) Single Phase 4.9 A<br>(440 ... 480 V AC) Three Phase 4.8 A<br>(550 ... 600 V AC) Three Phase 1.7 A |
| Horsepower Rating<br>UL/CSA         | (115 V AC) Single Phase 0.25 Hp<br>(200 V AC) Three Phase 1 Hp<br>(220 ... 240 V AC) Three Phase 2 Hp<br>(230 V AC) Single Phase 0.5 Hp<br>(440 ... 480 V AC) Three Phase 3 Hp<br>(550 ... 600 V AC) Three Phase 1 Hp  |
| General Use Rating<br>UL/CSA        | (300 V AC) 8 A   |
| Contact Rating UL/CSA               | A600   |

## Environmental

|                         |  |
|-------------------------|--|
| Ambient Air Temperature | Operation -20 ... +55 °C<br>Storage -40 ... +80 °C |
|-------------------------|--|

|   |  |
|---|--|
| 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 and Amendment 2015/863 July 22, 2019 |

## Certificates and Declarations

|                                     |                     |
|-------------------------------------|---------------------|
| CB Certificate                      | 1SAA938000-2002     |
| CQC Certificate                     | CQC2003010304064033 |
| cURus Certificate                   | cUL_E191658         |
| 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     |
| RMRS Certificate                    | 1SAA938000-0704     |
| UL Certificate                      | E191658-19880915    |

## Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | 5 piece       |
| Package Level 1 Width             | 115 mm        |
| Package Level 1 Height            | 64 mm         |
| Package Level 1 Depth /<br>Length | 280 mm        |
| Package Level 1 Gross<br>Weight   | 1.795 kg      |
| Package Level 1 EAN               | 4013614414046 |

## 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                                  |
| IDEA Granular Category<br>Code (IGCC) | 4761 >> Magnet contactor, AC-switching    |

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## Categories

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

