

VB7-30-10-80



Products → Low Voltage Products and Systems → Control Products → Contactor Starters → Reversing Contactors

General Information

| | |
|-------------------------------|--|
| Extended Product Type: | VB7-30-10-80 |
| Product ID: | GJL1311901R8100 |
| EAN: | 4013614152870 |
| Catalog Description: | VB7-30-10-80 Mini Reversing Contactor |
| Long Description: | The VB7-30-10 mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, screw terminals 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 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: | 1SBC100173C0201 |
| Instructions and Manuals: | 2CDC102046M6801 |
| 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

| | |
|---|---|
| Contactor Starter Type: | Compact Reversing Contactor with Normal Interlock |
| Number of Auxiliary Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 1 |
| Number of Main Contacts NC: | 0 |
| Number of Main Contacts NO: | 3 |
| Number of Poles: | 4 |
| Pollution Degree: | 3 |

| | |
|--|---|
| Rated Frequency (f): | Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC |
| Rated Impulse Withstand Voltage (U_{imp}): | Main Circuit 6 kV |
| Rated Insulation Voltage (U_i): | 690 V acc. to UL/CSA 600 V |
| Rated Operational Current AC-1 (I_e): | (220 / 240 V) 40 °C 20 A (220 / 240 V) 55 °C 16 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 55 °C 16 A (690 V) 40 °C 6 A (690 V) 55 °C 6 A |
| Rated Operational Current AC-3 (I_e): | (220 / 230 / 240 V) 55 °C 11.3 A (380 / 400 V) 55 °C 11.5 A (440 V) 55 °C 10.1 A (500 V) 55 °C 9.2 A (690 V) 55 °C 3.8 A |
| Rated Operational Voltage: | Main Circuit 690 V AC |
| Conventional Free-air Thermal Current (I_{th}): | Main Circuit 20 A |
| Rated Control Circuit 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 θ ≤ 55 °C) |
| Degree of Protection: | Main Circuit Terminals IP20 |
| Mechanical Durability: | 10000000 cycle |
| Connecting Capacity Main Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Auxiliary Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Control Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Tightening Torque: | Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m |
| Wire Stripping Length: | Auxiliary Circuit 9 mm Main Circuit 9 mm |
| Mounting on DIN Rail: | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 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 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |
|-------------------|--|

Environmental

| | |
|---------------------------------|--|
| Ambient Air Temperature: | Operation -20 ... +55 °C 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 |
|---------------------|-----------------------------------|

Technical UL/CSA

| | |
|--|-----------------------|
| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V AC |
|--|-----------------------|

| | |
|----------------------------------|--|
| Horsepower Rating UL/CSA: | (208 V AC) Three Phase 3 Hp (220 ... 240 V AC) Single Phase 1.5 Hp (220 ... 240 V AC) Three Phase 3 Hp (440 ... 480 V AC) Three Phase 5 Hp (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 |
|---|-------------------------|

| | |
|--|-------------------------|
| Connecting Capacity Auxiliary Circuit UL/CSA: | Stranded 1/2x 22-10 AWG |
|--|-------------------------|

| | |
|----------------------------------|--|
| Tightening Torque UL/CSA: | Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb |
|----------------------------------|--|

Certificates and Declarations (Document Number)

| | |
|------------------------|-----------------|
| BV Certificate: | 1SAA920000-0204 |
|------------------------|-----------------|

| | |
|------------------------|-----------------|
| CB Certificate: | 1SAA938000-2002 |
|------------------------|-----------------|

| | |
|-------------------------|-----------------|
| CCC Certificate: | 1SAA938001-3804 |
|-------------------------|-----------------|

| | |
|-------------------------|-------------|
| cUL Certificate: | cUL E191658 |
|-------------------------|-------------|

| | |
|--|-----------------|
| Declaration of Conformity - CE: | 1SAD938512-0001 |
|--|-----------------|

| | |
|----------------------------|-----------------|
| DNV GL Certificate: | 1SAA938000-0306 |
|----------------------------|-----------------|

| | |
|-------------------------|-----------------|
| EAC Certificate: | 1SAA920000-2702 |
|-------------------------|-----------------|

| | |
|----------------------------------|-----------------|
| Instructions and Manuals: | 2CDC102046M6801 |
|----------------------------------|-----------------|

| | |
|--------------------------|-----------------|
| KC Certificate: | 1SAA938000-1501 |
| LR Certificate: | 1SAA938000-0504 |
| RMRS Certificate: | 1SAA938000-0704 |
| RoHS Information: | 1SAD938512-0001 |

Container Information

| | |
|--|---------------|
| Package Level 1 Units: | 5 piece |
| Package Level 1 Width: | 115 mm |
| Package Level 1 Height: | 54 mm |
| Package Level 1 Depth / Length: | 280 mm |
| Package Level 1 Gross Weight: | 1.845 kg |
| Package Level 1 EAN: | 4013614417443 |

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: | 7.0 27371009 |
| UNSPSC: | 39121529 |

