



PRODUCT-DETAILS

VB7-30-10-01

VB7-30-10-01 Mini Reversing Contactor 24 V AC - 3 NO - 0 NC - Screw Terminals



| General Information | |
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| Extended Product Type | VB7-30-10-01 |
| Product ID | GJL1311901R0101 |
| EAN | 4013614185373 |
| Catalog Description | VB7-30-10-01 Mini Reversing Contactor 24 V AC - 3 NO - 0 NC - Screw Terminals |
| 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 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 silent coil, a switch position indication and the integrated possibility for rail or wall mounting. |

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

Popular Downloads

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

Dimensions

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

Technical

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| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 1 |
| Number of Auxiliary Contacts NC | 0 |
| Number of Poles | 3P |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L |
| Rated Operational Voltage | Auxiliary Circuit 690 V AC Auxiliary Circuit 250 V DC Main Circuit 690 V AC Main Circuit 220 V DC |
| Rated Frequency (f) | Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC |
| Conventional Free-air Thermal Current (I _{th}) | Main Circuit 20 A |
| 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) | (230 V) 55 °C 12 A (400 V) 55 °C 12 A (500 V) 55 °C 9 A (690 V) NO 55 °C 3.5 A |
| Rated Operational Power AC-3 (P _e) | (230 V) Three Phase 3 kW (400 V) Three Phase 5.5 kW (500 V) Three Phase 5.5 kW (690 V) Three Phase, NO 3 kW |
| Rated Breaking Capacity AC-3 | 8 x I _e / AC-3 |
| Rated Making Capacity AC-3 | 10 x I _e / AC-3 |
| Rated Short-time | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A |

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| Withstand Current Low Voltage (I_{cw}) | |
| Rated Insulation Voltage (U_i) | 690 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U_{imp}) | Main Circuit 6 kV |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour (AC-15) 600 cycles per hour (AC-3) 600 cycles per hour (DC-1) 600 cycles per hour (DC-13) 600 cycles per hour (DC-3) 600 cycles per hour |
| Mechanical Durability | Nr. Operations 10000000 cycle |
| Minimum Switching Capacity | Auxiliary Circuit 17 V Auxiliary Circuit 5 mA |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55^\circ\text{C}$) |
| Rated Control Circuit Voltage (U_c) | 24 V AC |
| Coil Consumption | Average Holding Value 50 Hz 3.5 V·A Average Pull-in Value 50 Hz 3.5 V·A |
| Power Loss | at Rated Operating Conditions AC-1 per Pole 1.4 W |
| Mounting on DIN Rail | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| 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 |
| Wire Stripping Length | Auxiliary Circuit 9 mm Main Circuit 9 mm |
| Degree of Protection | Main Circuit Terminals IP20 |
| Recommended Screw Driver | M3 Poqidriv 1 |
| Tightening Torque | Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m |
| Terminal Type | Screw Terminals |
| Product Name | Mini Reversing Contactor |

Technical UL/CSA

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| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC |
| General Use Rating UL/CSA | (600 V AC) 16 A |
| Horsepower Rating UL/CSA | (115 V AC) Single Phase 0.75 Hp (200 V AC) Three Phase 2 Hp (220 ... 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 1.5 Hp (440 ... 480 V AC) Three Phase 5 Hp (550 ... 600 V AC) Three Phase 5 Hp |
| Connecting Capacity Main Circuit UL/CSA | Stranded 1/2x 22-10 AWG |
| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG |

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| Contact Rating UL/CSA | A600 |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb Main Circuit 7 in-lb |
| Full Load Amps Motor Use | (115 V AC) Single Phase 13.8 A (200 V AC) Three Phase 7.8 A (220 ... 240 V AC) Three Phase 9.6 A (230 V AC) Single Phase 10 A (440 ... 480 V AC) Three Phase 7.6 A (550 ... 600 V AC) Three Phase 6.1 A |

Environmental

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| 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 | 5g 5 ... 150 Hz |
| Pollution Degree | 3 |

Material Compliance

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| 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) |

ABB EcoSolutions

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| End Of Life Disassembling Instructions | 1SBC100156C0269 |
| Environmental Product Declaration - EPD | 1SAC200410H0001 |

Certificates and Declarations

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| A2L Certificate – IEC | 1SAA938000-4601 |
| 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 |

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| KC Certificate | 1SAA938000-1501 |
| RMRS Certificate | 1SAA938000-0704 |
| UL Certificate | E191658-19881208 |

Container Information

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| Package Level 1 Units | box 5 piece |
| Package Level 1 Width | 115 mm |
| Package Level 1 Depth / Length | 280 mm |
| Package Level 1 Height | 54 mm |
| Package Level 1 Gross Weight | 1.845 kg |
| Package Level 1 EAN | 4013614417375 |

External Classifications and Standards

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| Object Classification Code | Q |
| ETIM 7 | EC000010 - Combination of contactors |
| ETIM 8 | EC000010 - Combination of contactors |
| ETIM 9 | EC000010 - Combination of contactors |
| eClass | V11.0 : 27371009 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4761 >> Magnet contactor, AC-switching |

Categories

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

