

Detailed information for: BC7-30-01-07

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Data Sheet

Documentation

BC7-30-01-07

General Information

Extended Product Type:BC7-30-01-07

Product ID: GJL1313001R0017

EAN: 4013614223877

Catalog Description: BC7-30-01-07 Mini Contactor 12VDC

Long Description: The BC7-30-01 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Further features are the noiseless and hum-free coil, a switch position indication and the integrated possibility for rail or wall mounting.



Categories

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

+ Accessories

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85365080

Popular Downloads

Data Sheet, Technical Information: [1SBC100173C0201](#)

Dimension Diagram: [GJL1200436F0001](#)

Dimensions

Product Net Width: 52.5 mm

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|---------------------|----------|
| Product Net Height: | 57.5 mm |
| Product Net Depth: | 46.5 mm |
| Product Net Weight: | 0.175 kg |

Technical

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| Number of Poles: | 4 |
| Mini Contactor Type: | Mini Contactor |
| Rated Operational Voltage: | Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Main Circuit 12 ... 690 V AC/DC Main Circuit 690 V AC |
| Rated Frequency (f): | Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC |
| Rated Impulse Withstand Voltage (U _{imp}): | Auxiliary Circuit 6 kV Main Circuit 6 kV |
| Rated Insulation Voltage (U _i): | 690 V 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 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 Power AC-3 (P _e): | (220 / 230 / 240 V) 3 kW (400 V) 5.5 kW (400 V) Three Phase 5.5 kW (440 V) 5.5 kW (500 V) 5.5 kW (690 V) 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 |
| Rated Operational Current AC-15 (I _e): | (120 V) 4 A (220 / 240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A |
| Rated Operational Current DC-13 (I _e): | (110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A |
| Conventional Free-air Thermal Current (I _{th}): | Main Circuit 20 A |
| Rated Control Circuit Voltage (U _c): | 12 V DC |
| Coil Operating Limits: | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U _c (at θ ≤ 55 °C) |
| Degree of Protection: | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Mechanical Durability: | 10000000 cycle |
| Minimum Switching Capacity: | 17 V 5 mA |

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| 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 |
| 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 |
| Tightening Torque: | Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m |
| 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

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| Ambient Air Temperature: | Operation -25 ... +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/EC |

Technical UL/CSA

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|---|--|
| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V AC |
| Full Load Amps Motor Use: | (240 V AC) Single Phase 10 A (440 ... 480 V AC) Three Phase 7.6 A |
| 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 | Stranded 1/2x 22-10 AWG |

Circuit UL/CSA:

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 Certificate: 1SAA938000-0305

EAC Certificate: 1SAA920000-2702

GL Certificate: 1SAA938000-0403

Instructions and Manuals: 2CDC102047M6801

KC Certificate: 1SAA938000-1501

LR Certificate: 1SAA938000-0503

RMRS Certificate: 1SAA938000-0704

RoHS Information: 1SAD938512-0001

Container Information

Package Level 1 Units: 10 piece

Package Level 1 Width: 115 mm

Package Level 1 Height: 54 mm

Package Level 1 Length: 280 mm

Package Level 1 Gross Weight: 1.82 kg

Package Level 1 EAN: 4013614418235

Classifications

Object Classification Code: Q

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

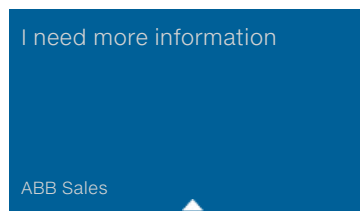
ETIM 6: EC000066 - Power contactor, AC switching

eClass: 7.0 27371003

UNSPSC: 39121529

Contact information

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