

PRODUCT-DETAILS

BC7-30-01-F-05

BC7-30-01-F-05 Mini Contactor 220 ... 240 V DC - 3 NO - 0 NC - Flat-Pin Connections



General Information

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|-----------------------|---|
| Extended Product Type | BC7-30-01-F-05 |
| Product ID | GJL1313003R0015 |
| EAN | 4013614191107 |
| Catalog Description | BC7-30-01-F-05 Mini Contactor 220 ... 240 V DC - 3 NO - 0 NC - Flat-Pin Connections |
| Long Description | The BC7-30-01-F mini contactor is a compact 3 pole contactor with 1 auxiliary contact and flat pin connection. 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. |

Ordering

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

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0202 |
|-----------------------------------|-----------------|

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|--------------------------|-----------------|
| Instructions and Manuals | 2CDC102047M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram | GJL1200437F0001 |

Dimensions

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| Product Net Width | 52.5 mm |
| Product Net Height | 57.5 mm |
| Product Net Depth / Length | 46.7 mm |
| Product Net Weight | 0.17 kg |

Technical

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| Number of Poles | 3 |
| Mini Contactor Type | Mini Contactor |
| 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) | 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) | (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 Short-time Withstand Current Low Voltage (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) | (24 V) 4 A (120 V) 4 A (500 V) 2 A (220 / 240 V) 4 A (380 / 400 V) 3 A |

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|---|--|
| Rated Operational Current DC-13 (I_{θ}) | (24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A |
| Conventional Free-air Thermal Current (I_{th}) | Main Circuit 20 A |
| Rated Control Circuit Voltage (U_c) | 220 ... 240 V DC |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55$ °C) |
| Degree of Protection | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Mechanical Durability | 10000000 cycle |
| Minimum Switching Capacity | Auxiliary Circuit 17 V Auxiliary Circuit 5 mA |
| 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 |
| 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 |
| Power Loss | at Rated Operating Conditions per Pole 2 W at Rated Operating Conditions AC-1 per Pole 1.4 W |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |

Technical UL/CSA

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|-------------------------------------|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V AC |
| 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 |
| 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 |
| General Use Rating UL/CSA | (600 V AC) 16 A |
| Contact Rating UL/CSA | A600 |

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/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations

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|----------------------------------|---------------------|
| BV Certificate | 1SAA920000-0204 |
| CB Certificate | 1SAA938000-2002 |
| CQC Certificate | CQC2003010304064033 |
| cURus Certificate | cUL_E191658 |
| 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 |
| KC Certificate | 1SAA938000-1501 |
| LR Certificate | 1SAA938000-0504 |
| RMRS Certificate | 1SAA938000-0704 |
| UL Certificate | E191658-19880915 |

Container Information

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|--------------------------------|---------------|
| Package Level 1 Units | 10 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 | 1.77 kg |
| Package Level 1 EAN | 4013614418464 |

Classifications

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|----------------------------|---|
| 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 |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|-----------------------------|-----------|----------|-----------------|
| GJL1201318R0004 | CA6-11N-F Auxiliary Contact | CA6-11N-F | 1 | piece |
| GJL1201318R0003 | CA6-11M-F Auxiliary Contact | CA6-11M-F | 1 | piece |
| GJL1201318R0002 | CA6-11E-F Auxiliary Contact | CA6-11E-F | 1 | piece |

Categories

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

