PRODUCT-DETAILS

# BC7-30-01-01

## BC7-30-01-01 Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals




360°

### General Information

| | |
|---|---|
| Extended Product Type | BC7-30-01-01 |
| Product ID | GJL1313001R0011 |
| EAN | 4013614152603 |
| Catalog Description | BC7-30-01-01 Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals |
| 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 buldings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A (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

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|---|---|
| EPLAN Data | 9AAC201037_EPLAN |
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals | 2CDC102047M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

## Dimensions

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|---|---|
| Product Net Width | 52.5 mm |
| Product Net Depth / Length | 46.7 mm |
| Product Net Height | 57.5 mm |
| Product Net Weight | 0.175 kg |
| Dimension Diagram | GJL1200436F0001 |

## Technical

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|---|---|
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 0 |
| Number of Auxiliary Contacts NC | 1 |
| Number of Poles | 3P |
| 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<br>IEC 60335-2-40 A2L |
| 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 DC<br>Main Circuit 50 Hz<br>Main Circuit 60 Hz<br>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<br>(220 / 240 V) 55 °C 16 A<br>(380 / 440 V) 40 °C 20 A<br>(380 / 440 V) 55 °C 16 A<br>(690 V) 40 °C 6 A<br>(690 V) 55 °C 6 A |
| Rated Operational Current AC-3 ($I_e$) | (230 V) 55°C 12 A<br>(400 V) 55 °C 12 A<br>(500 V) 55 °C 9 A<br>(690 V) NO 55°C 3.5 A |
| Rated Operational Current AC-15 ($I_e$) | (24 V) 4 A<br>(120 V) 4 A<br>(500 V) 2 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A |
| Rated Operational Current DC-13 ($I_e$) | (24 V) 2.5 A<br>(110 V) 0.7 A |

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| | |
|---|---|
| | (220 / 240 V) 0.4 A |
| Rated Operational Power AC-3 ($P_e$) | (230 V) Three Phase 3 kW<br>(400 V) Three Phase 5.5 kW<br>(500 V) Three Phase 5.5 kW<br>(690 V) Three Phase, NO 3 kW |
| Rated Breaking Capacity AC-3 | 8 x Ie / AC-3 |
| Rated Making Capacity AC-3 | 10 x Ie / AC-3 |
| 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 |
| Rated Insulation Voltage ($U_i$) | 690 V<br>acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | Auxiliary Circuit 6 kV<br>Main Circuit 6 kV |
| Maximum Electrical 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 |
| Mechanical Durability | Nr. Operations 10000000 cycle |
| Minimum Switching Capacity | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x Uc (at θ ≤ 55 °C) |
| Rated Control Circuit Voltage ($U_c$) | 24 V DC |
| Coil Consumption | Average Holding Value DC 3.5 W<br>Average Pull-in Value DC 3.5 W |
| 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<br>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 mm²<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| Wire Stripping Length | Auxiliary Circuit 9 mm<br>Main Circuit 9 mm |
| Degree of Protection | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20 |
| Recommended Screw Driver | M3<br>Pozidriv 1 |
| Tightening Torque | Auxiliary Circuit 0.8 ... 1.1 N·m<br>Control Circuit 0.8 ... 1.1 N·m<br>Main Circuit 0.8 ... 1.1 N·m |
| Terminal Type | Screw Terminals |
| Mini Contactor Type | Mini Contactor |
| Product Name | Mini 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<br>(200 V AC) Three Phase 2 Hp<br>(220 ... 240 V AC) Three Phase 3 Hp<br>(230 V AC) Single Phase 1.5 Hp<br>(440 ... 480 V AC) Three Phase 5 Hp<br>(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 |
| Contact Rating UL/CSA | A600 |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in·lb<br>Control Circuit 7 in·lb<br>Main Circuit 7 in·lb |
| Full Load Amps Motor Use | (115 V AC) Single Phase 13.8 A<br>(200 V AC) Three Phase 7.8 A<br>(220 ... 240 V AC) Three Phase 9.6 A<br>(230 V AC) Single Phase 10 A<br>(440 ... 480 V AC) Three Phase 7.6 A<br>(550 ... 600 V AC) Three Phase 6.1 A |

## Environmental

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|---|---|
| Ambient Air Temperature | Operation -25 ... +55 °C<br>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 |

## Material Compliance

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|---|---|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Declaration | 2CMT2021-006277 |
| RoHS Information | 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 | 1SAC200409H0001 |

## Certificates and Declarations

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|---|---|
| A2L Certificate – IEC | 1SAA938000-4601 |
| BV Certificate | 1SAA920000-0204 |
| 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 |
| KC Certificate | 1SAA938000-1501 |
| LR Certificate | 1SAA938000-0504 |
| RMRS Certificate | 1SAA938000-0704 |
| UL Certificate | E191658-19881208 |

## Container Information

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|---|---|
| Package Level 1 Units | box 10 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 | 1.82 kg |
| Package Level 1 EAN | 4013614418181 |

## External Classifications and Standards

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|---|---|
| Object Classification Code | Q |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| ETIM 9 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4763 >> Power contactor, DC switching |
| E-Number (Norway) | 4183943 |
| E-Number (Sweden) | 3210075 |

## Accessories

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| Identifier | Description | Type Quantity | | Unit Of Measure |
|---|---|---|---|---|
| GJL1201317R0002 | CA6-11E Auxiliary Contact 1NO/1NC screw terminal, side mounted | CA6-11E | 1 | piece |
| GJL1201317R0003 | CA6-11M Auxiliary Contact 1NO/1NC screw terminal, side mounted | CA6-11M | 1 | piece |
| GJL1201317R0004 | CA6-11N Auxiliary Contact 1NO/1NC screw terminal, side mounted | CA6-11N | 1 | piece |
| GJL1201330R0003 | CAF6-11M Auxiliary Contact 1NO/1NC screw terminal, front mounted | CAF6-11M | 1 | piece |
| GJL1201330R0006 | CAF6-20E Auxiliary Contact 2NO/0NC screw terminal, front mounted | CAF6-20E | 1 | piece |
| GJL1201330R0011 | CAF6-02M Auxiliary Contact 0NO/2NC screw terminal, front mounted | CAF6-02M | 1 | piece |
| GJL1201330R0007 | CAF6-20M Auxiliary Contact 2NO/0NC screw terminal, front mounted | CAF6-20M | 1 | piece |
| GJL1201330R0012 | CAF6-02N Auxiliary Contact 0NO/2NC screw terminal, front mounted | CAF6-02N | 1 | piece |
| GJL1201330R0008 | CAF6-20N Auxiliary Contact 2NO/0NC screw terminal, front mounted | CAF6-20N | 1 | piece |
| GJL1201330R0002 | CAF6-11E Auxiliary Contact 1NO/1NC screw terminal, front mounted | CAF6-11E | 1 | piece |
| GJL1201330R0004 | CAF6-11N Auxiliary Contact 1NO/1NC screw terminal, front mounted | CAF6-11N | 1 | piece |
| GJL1201330R0010 | CAF6-02E Auxiliary Contact 0NO/2NC screw terminal, front mounted | CAF6-02E | 1 | piece |
| GJL1201906R0001 | LT6-B Mini Contactor Cover Cap | LT6-B | 1 | piece |
| GJL1201904R0001 | BN6 Plunger for Mini Contactor (50 pcs) BN6 Plunger for Mini Contactor 50 pcs | BN6 | 1 | piece |

## Categories

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




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