



 PRODUCT-DETAILS

B7-40-00-F-80

B7-40-00-F-80 Mini Contactor 220 ... 240 V AC - 4 NO - 0 NC - Flat-Pin Connections



General Information

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| Extended Product Type | B7-40-00-F-80 |
| Product ID | GJL1311203R8000 |
| EAN | 4013614150593 |

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| Catalog Description | B7-40-00-F-80 Mini Contactor 220 ... 240 V AC - 4 NO - 0 NC - Flat-Pin Connections |
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| Long Description | <p>The B7-40-00-F mini contactor is a compact 4 pole contactor with 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 (AC-1) or switching of control signals. Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting.</p> |
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Ordering

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

Popular Downloads

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|-----------------------------------|------------------|
| EPLAN Data | 9AAC201023_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 | 0.17 kg |
| Dimension Diagram | GJL1200437F0001 |

Technical

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| Number of Main Contacts NO | 4 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 0 |
| Number of Auxiliary Contacts NC | 0 |
| Number of Poles | 4P |
| 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 | Main Circuit 690 V AC Main Circuit 220 V DC |
| Rated Frequency (f) | Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz Main Circuit 50 Hz Main Circuit 60 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 | 10 x I_e / AC-3 |

AC-3

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| 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 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-3) 600 cycles per hour (DC-1) 600 cycles per hour (DC-3) 600 cycles per hour |
| Mechanical Durability | Nr. Operations 10000000 cycle |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55$ °C) |
| Rated Control Circuit Voltage (U_c) | 220 ... 240 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 |
| Degree of Protection | Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Terminal Type | Flat-Pin Connections |
| 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 (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 |
| 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 -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 | 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 | 1SBC100156C0263 |
| 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 |
| 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 | 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 | 1.77 kg |
| Package Level 1 EAN | 4013614417085 |

External Classifications and Standards

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| Object Classification Code | Q |
| ETIM 7 | EC000066 - Power contactor, AC switching |

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| 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) | 4761 >> Magnet contactor, AC-switching |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|--|-----------|----------|-----------------|
| GJL1201318R0004 | CA6-11N-F Auxiliary Contact 1NO/1NC flat pin, side mounted | CA6-11N-F | 1 | piece |
| GJL1201318R0003 | CA6-11M-F Auxiliary Contact 1NO/1NC flat pin, side mounted | CA6-11M-F | 1 | piece |
| GJL1201318R0002 | CA6-11E-F Auxiliary Contact 1NO/1NC flat pin, side mounted | CA6-11E-F | 1 | piece |

Categories

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

