

PRODUCT-DETAILS

Dimensions

AF110B-30-11-72 AF110B-30-11 20-60V DC Contactor



| General Information | |
|--------------------------------------|---|
| Extended Product Type | AF110B-30-11-72 |
| Product ID | 1SFL457063R7211 |
| EAN | 7320500256480 |
| Catalog Description | AF110B-30-11 20-60V DC Contactor |
| Long Description | A 3-phase Contactor suitable for Rail way applications application. Operated with a wide voltage control voltage range 20-60V, DC |
| Oudovio | |
| Ordering | |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |
| Replacement Product ID (NEW) | 1SFL427063R1122 |
| | |
| Popular Downloads | |
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals | 5309660-60 |
| Dimension Diagram | 53540923-8 |

| Product Net Width | 102 mm |
|-------------------------------|----------|
| Product Net Depth / Length | 123.5 mm |
| Product Net Height | 148 mm |
| Product Net Weight | 1.9 kg |

| Product Net Weight | 1.9 ку |
|---|--|
| Technical | |
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 1 |
| Number of Auxiliary Contacts NC | 1 |
| Rated Operational Voltage | Main Circuit 1000 V |
| Conventional Free-air Thermal Current (I _{th}) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A |
| Rated Operational Current AC-1 (I _e) | (690 V) 40 °C 160 (690 V) 55 °C 145 (690 V) 70 °C 130 |
| Rated Operational Current AC-3 (I _e) | (415 V) 55 °C 110 A (440 V) 55 °C 100 A (500 V) 55 °C 100 A (590 V) 55 °C 30 A (1000 V) 55 °C 30 A (380 / 400 V) 55 °C 110 A (220 / 230 / 240 V) 55 °C 110 |
| Rated Operational Power AC-3 (P _e) | (415 V) 59 kW (440 V) 59 kW (500 V) 59 kW (690 V) 75 kW (1000 V) 40 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4- | 8 x le AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4- | 10 x le AC-3 |
| Short-Circuit Protective Devices | gG Type Fuses 160 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1160 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 800 A |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour |
| Rated Operational Current DC-1 (I _e) | (110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A |
| Rated Operational Current DC-3 (I_e) | (110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A |
| Rated Operational Current DC-5 (I_e) | (110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A |
| Rated Insulation Voltage (U_i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U _{imp}) | Main Circuit 8 kV |
| Mechanical Durability | 10 million |
| Maximum Mechanical Switching Frequency | 300 cycles per hour |
| Coil Operating Limits | (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C) |
| Rated Control Circuit Voltage (U _c) | DC Operation 20 60 V |

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| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 350 V·A Pull-in at Max. Rated Control Circuit Voltage DC 400 W |
|--|---|
| Operate Time | Between Coil De-energization and NC Contact Closing 60 130 ms Between Coil De-energization and NO Contact Opening 55 125 ms Between Coil Energization and NC Contact Opening 27 77 ms Between Coil Energization and NO Contact Closing 30 80 ms |
| Connecting Capacity Main Circuit | Bar 30 mm 2 Flexible with Cable End 1 x 10 70 mm 2 Rigid 2 x 6 65 mm 2 |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Connecting Terminals (delivered in open position) Main Poles | M8 hexagon socket screw with single connector |
| Terminal Type | Cable Clamp |
| | |
| Technical UL/CSA | |

| Technical UL/CSA | |
|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating UL/CSA | (600 V AC) 140 A |
| Horsepower Rating UL/CSA | (200 V AC) Three Phase 30 hp (208 V AC) Three Phase 30 hp (220 240 V AC) Three Phase 40 hp (440 480 V AC) Three Phase 75 hp (550 600 V AC) Three Phase 100 hp |

| Environmental | |
|--|---|
| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 +50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 +70 °C Close to Contactor for Storage -60 +80 °C |
| Maximum Operating Altitude Permissible | 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27 | Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: A 20 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 15 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 K40 |
| | Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 K40 |
| RoHS Status | Following EU Directive 2011/65/EU |

| Certificates and Declarations (Document Number) | |
|---|-------------|
| BV Certificate | 13409/C0 BV |
| CB Certificate | SE-73668 |

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| CCC Certificate | CQC_2002010304007860 |
|---------------------------------|----------------------|
| CQC Certificate | CQC2002010304007860 |
| Declaration of Conformity - CCC | 2020980304001857 |
| Declaration of Conformity - CE | 2CMT2015-005436 |
| EAC Certificate | 9AKK107046A8618 |
| Environmental Information | 1SFC101006D0201 |
| GL Certificate | GL_20260-04HH |
| Instructions and Manuals | 5309660-60 |
| LOVAG Certificate | SE9831016 |
| LR Certificate | LR_04-00015-E1 |
| RINA Certificate | ELE060313XG/002 |
| RMRS Certificate | RMRS_12-03683-315 |
| RoHS Information | 2CMT2015-005436 |

| Container Information | |
|---------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 130 mm |
| Package Level 1 Depth / Length | 265 mm |
| Package Level 1 Height | 162 mm |
| Package Level 1 Gross Weight | 2.1 kg |
| Package Level 1 EAN | 7320500256480 |

| 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 |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |

Categories

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