

PRODUCT-DETAILS

AF210B-30-11-72

AF210B-30-11 20-60V DC Contactor

For sale but "Obsolete", replaced by



General Information

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| Extended Product Type | AF210B-30-11-72 |
| Product ID | 1SFL517063R7211 |
| EAN | 7320500258460 |
| Catalog Description | AF210B-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 20-60 V, DC |

Ordering

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|------------------------------|-----------------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |
| Replacement Product ID (NEW) | 1SFL527063R1122 |

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals | 1SFC380003-89 |
| Dimension Diagram | 53540930-2 |

Dimensions

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| Product Net Width | 140 mm |
| Product Net Depth / Length | 180.5 mm |
| Product Net Height | 227 mm |
| Product Net Weight | 5.5 kg |

Technical

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| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 1 |
| Number of Auxiliary Contacts NC | 1 |
| Standards | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives. |
| Rated Operational Voltage | Main Circuit 690 V |
| Conventional Free-air Thermal Current (I_{th}) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 A |
| Rated Operational Current AC-1 (I_e) | (690 V) 40 °C 350 (690 V) 55 °C 300 (690 V) 70 °C 240 |
| Rated Operational Current AC-3 (I_e) | (415 V) 55 °C 210 A (440 V) 55 °C 210 A (500 V) 55 °C 210 A (690 V) 55 °C 210 A (380 / 400 V) 55 °C 210 A (220 / 230 / 240 V) 55 °C 210 |
| Rated Operational Power AC-3 (P_e) | (415 V) 110 kW (440 V) 110 kW (500 V) 320 kW (690 V) 160 kW (380 / 400 V) 110 kW (220 / 230 / 240 V) 59 kW |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x I_e AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x I_e AC-3 |
| Short-Circuit Protective Devices | gG Type Fuses 160 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 2200 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 2000 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 350 A (220 V) 3 Poles in Series, 40 °C 350 A |
| Rated Operational Current DC-3 (I_e) | (110 V) 2 Poles in Series, 40 °C 350 A (220 V) 3 Poles in Series, 40 °C 350 A |

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| Rated Operational Current DC-5 (I_e) | (110 V) 2 Poles in Series, 40 °C 350 A (220 V) 3 Poles in Series, 40 °C 350 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 | 5 million |
| Maximum Mechanical Switching Frequency | 300 cycles per hour |
| Coil Operating Limits | (acc. to IEC 60947-4-1) 0.85 x U_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70$ °C) |
| Rated Control Circuit Voltage (U_c) | DC Operation 20 ... 60 V |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 10 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 470 V·A Pull-in at Max. Rated Control Circuit Voltage DC 520 W |
| Operate Time | Between Coil De-energization and NC Contact Closing 40 ... 50 ms Between Coil De-energization and NO Contact Opening 43 ... 53 ms Between Coil Energization and NC Contact Opening 45 ... 85 ms Between Coil Energization and NO Contact Closing 50 ... 90 ms |
| Connecting Capacity Main Circuit | Bar 32 mm ² Rigid Al-Cable 2 x 95 ... 120 mm ² Rigid Cu-Cable 16 ... 240 mm ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 ... 4 mm ² |
| 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 IP00 |
| Connecting Terminals (delivered in open position) Main Poles | Flat type c/w screws and bolts |
| Terminal Type | Main Circuit: Bars |

Technical UL/CSA

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|-------------------------------------|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating UL/CSA | (600 V AC) 300 A |
| Horsepower Rating UL/CSA | (200 V AC) Three Phase 60 hp (208 V AC) Three Phase 60 hp (220 ... 240 V AC) Three Phase 75 hp (440 ... 480 V AC) Three Phase 150 hp (550 ... 600 V AC) Three Phase 200 hp |

Environmental

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| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U_c) -25 ... 50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U_c) -40 ... 70 °C Close to Contactor for Storage -40 ... +70 °C |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |
| Resistance to Shock acc. | Shock Direction: A 5 g |

to IEC 60068-2-27

Shock Direction: B1 5 g
Shock Direction: B2 5 g
Shock Direction: C1 5 g
Shock Direction: C2 5 g

RoHS Status

Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

| | |
|------------------------------------|---------------------|
| BV Certificate | 13409/C0 BV |
| CB Certificate | SE-69491 |
| CQC Certificate | CQC2007010304256681 |
| Declaration of Conformity - CCC | 2020980304001554 |
| Declaration of Conformity - CE | 2CMT2015-005436 |
| EAC Certificate | 9AKK107046A8618 |
| Environmental Information | 1SFC101008D0201 |
| GL Certificate | GL_20262-04HH |
| Instructions and Manuals | 1SFC380003-89 |
| LOVAG Certificate | SE-0115198 |
| LR Certificate | LR_04-00015-E1 |
| RINA Certificate | ELE060313XG/002 |
| RMRS Certificate | RMRS_12-03683-315 |
| RoHS Information | 2CMT2015-005436 |

Container Information

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|-----------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 203 mm |
| Package Level 1 Depth / Length | 245 mm |
| Package Level 1 Height | 188 mm |
| Package Level 1 Gross Weight | 6.2 kg |
| Package Level 1 EAN | 7320500258460 |

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 |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |

Categories

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

