

53540923-8

PRODUCT-DETAILS

Dimension Diagram

AF110B-30-11-69 AF110B-30-11 48-130V 50/60Hz / DC Contactor



General Information	
Extended Product Type	AF110B-30-11-69
Product ID	1SFL457063R6911
EAN	7320500256589
Catalog Description	AF110B-30-11 48-130V 50/60Hz / DC Contactor
Long Description	A 3-phase Contactor suitable for Rail way applications application. Operated with a wide voltage control voltage range 48-130 V, AC/DC
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL427063R1222
Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	5309660-60

Dimensions	
Product Net Width	102 mm
Product Net Depth / Length	123.5 mm
Product Net Height	148 mm
Product Net Weight	1.9 kg
 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
Rated Frequency (f)	Main Circuit 50/60 Hz
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 (690 V) 55 °C 82 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	(110 V) 2 Poles in Series, 40 °C 160 A

DC-5 (I _e)	(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 ($\mathrm{U_c}$)	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
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 mm² Flexible with Cable End 1 x 10 70 mm² Rigid 2 x 6 65 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 1 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	
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	

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.	Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock

Direction: A 20 K40 to IEC 60068-2-27

> 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-73666 **CCC** Certificate CQC_2002010304007860 **CQC** Certificate CQC2002010304007860 **Declaration of Conformity** 2020980304001857 - CCC **Declaration of Conformity** 2CMT2015-005436 - CE **EAC Certificate** 9AKK107046A8618 **Environmental Information** 1SFC101006D0201 **GL** Certificate GL_20260-04HH Instructions and Manuals 5309660-60 LOVAG Certificate SE-0145185 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	7320500256589

Classifications

Object Classification Code

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 \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

