

PRODUCT-DETAILS

AF110-30-11-72 AF110-30-11 20-60V DC Contactor "No longer for sale" replaced by



General Information	
Extended Product Type	AF110-30-11-72
Product ID	1SFL457001R7211
EAN	7320500239759
Catalog Description	AF110-30-11 20-60V DC Contactor
Long Description	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By- pass and Distribution application up to max 1000 V. Operated with wide control voltage range 20-60 V, DC
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL427001R1111

Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	5309660-60
Dimension Diagram	53540923-8

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 3 NO Number of Main Contacts 0 NC Number of Auxiliary 1 Contacts NO Number of Auxiliary 1 Contacts NC Rated Operational Voltage Main Circuit 1000 V Conventional Free-air acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A Thermal Current (I_{th}) Rated Operational Current (690 V) 40 °C 160 A (690 V) 55 °C 145 A AC-1 (I_e) (690 V) 70 °C 130 A Rated Operational Current (415 V) 55 °C 110 A (440 V) 55 °C 100 A AC-3 (I_) (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 (415 V) 59 kW AC-3 (P_e) (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 8 x le AC-3 AC-3 Rated Making Capacity 10 x le AC-3 AC-3 Short-Circuit Protective gG Type Fuses 160 A Devices Maximum Breaking 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 Capacity Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour Rated Operational Current (110 V) 2 Poles in Series, 40 °C 160 A DC-1 (I_e) (220 V) 3 Poles in Series, 40 °C 160 A (110 V) 2 Poles in Series, 40 °C 160 A Rated Operational Current $DC-3(I_e)$ (220 V) 3 Poles in Series, 40 °C 160 A

Rated Operational Current DC-5 (I_e)

Rated Insulation Voltage

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V

(110 V) 2 Poles in Series, 40 °C 160 A

(220 V) 3 Poles in Series, 40 °C 160 A

(U _i)	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 $\theta \le 70$ °C)
Rated Control Circuit Voltage (U _c)	DC Operation 20 60 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 2 x 6 35 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 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

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 140 A
Horsepower Rating	(200 V AC) Three Phase 30 hp
UL/CSA	(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

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 $^\circ\text{C}$
	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	Without Derating 3000 m
Altitude Permissible	
Resistance to Shock acc.	Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock
to IEC 60068-2-27	Direction: A 20 g
	Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock
	Direction: A 20 g

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

Direction: B1 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 g Following EU Directive 2011/65/EU

RoHS Status

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SEMKO_SE-73663
CCS Certificate	GB14T00030
CQC Certificate	CQC2002010304007860 CQC2009010304353506
Declaration of Conformity - CCC	2020980304001857 2020980304001073
Declaration of Conformity - CE	2CMT2015-005436
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101006D0201
GL Certificate	GL_20260-04HH
Instructions and Manuals	5309660-60
LOVAG Certificate	SE-0145185
LR Certificate	16-20064
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	7320500239759

Classifications	

Object Classification Code

Q

ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	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

