

PRODUCT-DETAILS

AF110-30-22-72

AF110-30-22 20-60V DC Contactor

"No longer for sale" replaced by



General Information	
Extended Product Type	AF110-30-22-72
Product ID	1SFL457001R7222
EAN	7320500239766
Catalog Description	AF110-30-22 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)	1SFL427001R1122

Popular Downloads

Data Sheet, Technical

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1SBC100192C0206

2024/10/13

Information	
Instructions and	5309660-60
Manuals	
Dimension Diagram	53540923-9

Dimensions	
Product Net Width	90 mm
Product Net Depth / Length	156.5 mm
Product Net Height	148 mm
Product Net Weight	1.9 kg

Technical	
Number of Main	3
Contacts NO	
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 1000 V
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 160 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 160 A (690 V) 55 °C 145 A (690 V) 70 °C 130 A
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	8 x le AC-3
Rated Making Capacity AC-3	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 (Ie)	(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 (Ie)	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A

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Rated Insulation Voltage (Ui)	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
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 60 Hz 350 V·A
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 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 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		
Ambient Air Temperature	Close to Contactor Fitted with Therma	al O/L Relay (0.85 1.1 Uc) -25 50 ° C
	Close to Contactor without Thermal (Close to	D/L Relay (0.85 1.1 Uc) -40 70 °C Contactor for Storage -60 +80 °C
Maximum Operating Altitude Permissible		Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Half-sine Pulse for 11 ms, No Chang	ge in Contact Position, Open, Shock Direction: A 20 g
	Half-sine Pulse for 11 ms, No Change	e in Contact Position, Closed, Shock Direction: A 20 g
	Half-sine Pulse for 11 ms, No Change	e in Contact Position, Closed, Shock Direction: B1 15 g
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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

Material Compliance	
RoHS Information	2CMT2015-005436
RoHS Status	Following EU Directive 2011/65/EU
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
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
GL Certificate	GL_20260-04HH
LOVAG Certificate	SE9831016
LR Certificate	16-20064
RINA Certificate	ELE060313XG_002
RMRS Certificate	RMRS_12-03683-315

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	170 mm
Package Level 1 Depth / Length	140 mm
Package Level 1 Height	170 mm
Package Level 1 Gross Weight	2.1 kg
Package Level 1 EAN	7320500239766

Classifications	
Object Classification	G
Code	
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)	4755 >> Contactors

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors \rightarrow AF Contactors

