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PRODUCT-DETAILS

AF110-30-22-70

AF110-30-22 100-250V 50/60Hz / DC Contactor

"No longer for sale" replaced by



General Information	
Extended Product Type	AF110-30-22-70
Product ID	1SFL457001R7022
EAN	7320500239704
Catalog Description	AF110-30-22 100-250V 50/60Hz / 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 100-250 V, AC/DC

Ordering		
Minimum Order Quantity	1 piece	
Customs Tariff Number	85364900	
Replacement Product ID (NEW)	1SFL427001R1322	

Popular Downloads

Data Sheet, Technical 1SBC100192C0206

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Instructions and Manuals	5309660-60
Dimension Diagram	53540923-6

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 Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Number of Poles	3P
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 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 Current DC-1 (le)	(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 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

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acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 acc. to UL/CSA 600	Rated Insulation Voltage (U _i)
Main Circuit 8 k	Rated Impulse Withstand Voltage (U _{imp}
(AC-1) 300 cycles per ho (AC-2 / AC-4) 150 cycles per ho) Maximum Electrical Switching Frequency
(AC-3) 300 cycles per hou	
10 millio	Mechanical Durability
300 cycles per hou	Maximum Mechanical Switching Frequency
(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70^{\circ}$ C	Coil Operating Limits
50 Hz 48 130 60 Hz 48 130 DC Operation 48 130	Rated Control Circuit Voltage (U_c)
Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V. Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V. Holding at Max. Rated Control Circuit Voltage DC 2 V. Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V. Pull-in at Max. Rated Control Circuit Voltage 60 Hz 350 V. Pull-in at Max. Rated Control Circuit Voltage DC 400 V	Coil Consumption
at Rated Operating Conditions per Pole 3.5	Power Loss
Between Coil De-energization and NC Contact Closing 60 130 m Between Coil De-energization and NO Contact Opening 55 125 m Between Coil Energization and NC Contact Opening 27 77 m Between Coil Energization and NO Contact Closing 30 80 m	Operate Time
Bar 30 mn Flexible with Cable End 1 x 10 70 mn Rigid 1 x 10 95 mn	Connecting Capacity Main Circuit
Flexible with Ferrule 1x 0.75 2.5 mn Flexible with Insulated Ferrule 1x 0.75 2.5 mn Flexible 2x0.75 2.5 mn Solid 2 x 1 4 mn Stranded 2 x 1 4 mn	Connecting Capacity Auxiliary Circuit
Bar 30 mn Flexible with Cable End 1 x 10 70 mn Rigid 2 x 6 65 mn	Connecting Capacity
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP1	Degree of Protection
M8 hexagon socket screw with single connecto	Connecting Terminals (delivered in open position) Main Poles
Main Circuit 8 N-	Tightening Torque
Cable Clam	Terminal Type
Block Contacto	Product Name

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
Full Load Amps Motor Use	(440 480 V AC) Three Phase 96 A (550 600 V AC) Three Phase 99 A

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Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 $^{\circ}$ 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	Without Derating 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 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: C2 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	SE-0145185
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 /	140 mm	

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Length

Package Level 1 Height	170 mm
Package Level 1 Gross Weight	2.1 kg
Package Level 1 EAN	7320500239704

External Classifications and Standards	
Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
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

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

