

PRODUCT-DETAILS

## A110-30-22-84 A110-30-22 110V 50Hz / 110-120V 60Hz Contactor



General Information	
Extended Product Type	A110-30-22-84
Product ID	1SFL451001R8422
EAN	7320500141038
Catalog Description	A110-30-22 110V 50Hz / 110-120V 60Hz Contactor
Long Description	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V.Operated with control voltage, versions from 24….690 AC, 50 and 60 Hz
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL427001R1322
Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	5309660-60
Dimension Diagram	53540923-1

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Dimensions	
Product Net Width	90 mm
Product Net Depth / Length	156.5 mm
Product Net Height	148 mm
Product Net Weight	1.8 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
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 50/60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 160 (690 V) 55 °C 145 (690 V) 70 °C 130
Rated Operational Current AC-3 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 200 A
Rated Short-time Withstand Current (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 800 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 175 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1320 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 500 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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(110 V) 2 Poles in Series, 40 °C 160 A (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

Main Circuit 8 kV

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Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 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 <sub>c</sub> )	50 Hz 110 V 60 Hz 110 120 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A
Operate Time	Between Coil De-energization and NC Contact Closing 7 15 ms Between Coil De-energization and NO Contact Opening 10 18 ms Between Coil Energization and NC Contact Opening 7 22 ms Between Coil Energization and NO Contact Closing 10 25 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 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
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 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. to IEC 60068-2-27	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, Open, Shock Direction: C2 20 K40 Following EU Directive 2011/65/EU RoHS Status

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

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Certificates and Declarations (Document Number)		
BV Certificate	07172/D0 BV	
CB Certificate	SE-69487	
CCC Certificate	CQC_2002010304008904	
CSA Certificate	314005	
Declaration of Conformity - CE	2CMT2015-005436	
DNV Certificate	DNV_E-12191	
Environmental Information	1SFC101001D0201	
GL Certificate	GL_99358-97HH	
Instructions and Manuals	5309660-60	
LOVAG Certificate	SE-9645071-2	
LR Certificate	LR_12-70027-E1	
RINA Certificate	ELE060313XG/001	
RMRS Certificate	RMRS_12-03683-315	
RoHS Information	2CMT2015-005436	

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 kg	
Package Level 1 EAN	7320500141038	

Classifications		
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	
UNSPSC	39121529	
IDEA Granular Category Code (IGCC)	4755 >> Contactors	

## Categories

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