

PRODUCT-DETAILS

A110-30-11-81 A110-30-11 24V 50Hz / 24V 60Hz Contactor



General Information	
Extended Product Type	A110-30-11-81
Product ID	1SFL451001R8111
EAN	7320500141571
Catalog Description	A110-30-11 24V 50Hz / 24V 60Hz 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 control voltage, versions from 24⣦.690 AC, 50 and 60 Hz

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

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 kg
Package Level 1 EAN	7320500141571

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

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 for Storage -60 +80 °C 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
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
	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

Technical	
NO 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 A (690 V) 55 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I _e)	(1000 V) 55 °C 30 A (220 / 230 / 240 V) 55 °C 110 A (380 / 400 V) 55 °C 110 A (415 V) 55 °C 110 A (440 V) 55 °C 100 A (500 V) 55 °C 100 A (690 V) 55 °C 82 A
Rated Operational Power AC-3 (P _e)	(1000 V) 40 (220 / 230 / 240 V) 30 kW (380 / 400 V) 55 kW (415 V) 59 kW (440 V) 59 kW (500 V) 59 kW (690 V) 75 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4- 1	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 200 A
Rated Short-time Withstand Current (I _{cw})	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 _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 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 Insulation Voltage (U_i)	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 kV
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 $\theta \le 70$ °C)
Rated Control Circuit	50 Hz 24 V

Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Coil Consumption 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 Flexible with Cable End 2 x 6 ... 35 m² Circuit Rigid 2 x 6 ... 65 m² Connecting Capacity Flexible with Ferrule 2x 0.75 ... 2.5 Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 ... 2.5 Flexible 2x0.75 ... 2.5 m² Solid 1 x 1 ... 4 m² Stranded 1 x 1 4 m² 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 M8 hexagon socket screw with single connector (delivered in open position) Main Poles Terminal Type Cable Clamp **Dimensions** Product Net Width 102 mm Product Net Depth / 123.5 mm Length Product Net Height 148 mm Product Net Weight 1.8 kg Popular Downloads 1SBC100192C0206 Data Sheet, Technical Information 5309660-60 Instructions and Manuals Dimension Diagram 53540923-1 Ordering Minimum Order Quantity 1 piece **Customs Tariff Number** 85364900 Replacement Product ID 1SFL427001R1111

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