

PRODUCT-DETAILS

## A110-30-11-86 A110-30-11 400-415V 50Hz / 415-440V 60Hz Contactor



General Information	
Extended Product Type	A110-30-11-86
Product ID	1SFL451001R8611
EAN	7320500142479
Catalog Description	A110-30-11 400-415V 50Hz / 415-440V 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
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL427001R1411
Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	5309660-60
Dimension Diagram	53540923-1

A110-30-11-86 2

Dimensions	
Product Net Width	102 mm
Product Net Depth / Length	123.5 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	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 <sub>th</sub> )	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 (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 20 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- 1	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 $(I_e)$	(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 IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V

Rated Impulse Withstand

Main Circuit 8 kV

A110-30-11-86 3

Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hou
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 400 415 V 60 Hz 415 440 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 mm Flexible with Cable End 1 x 10 70 mm Rigid 1 x 10 95 mm
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 2.5 mm <sup>2</sup> Flexible 1x0.75 2.5 mm <sup>2</sup> Solid 2 x 1 4 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup>
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
Voltage UL/CSA General Use Rating	(600 V AC) 140 A
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.	Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock
to IEC 60068-2-27	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
On HS Status	Following ELL Directive 2011/65/EL

Following EU Directive 2011/65/EU

RoHS Status

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	SE9723126-2	
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	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	7320500142479	

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

A110-30-11-86 5

