

# A110-30-11-36



A110-30-11 190V 50Hz / 220V 60Hz Contactor

## General Information

Extended Product Type	A110-30-11-36
Product ID	1SFL451001R3611
EAN	7320500142417
Catalog Description	A110-30-11 190V 50Hz / 220V 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 24V AC, 50 and 60 Hz

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SFL427001R1311

## Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	5309660-60
Dimension Diagram	53540923-1

## Dimensions

Product Net Width	102.0 mm
Product Net Depth / Length	123.5 mm
Product Net Height	148.0 mm
Product Net Weight	2.040 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 ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 160 A

Rated Operational Current AC-1 ( $I_e$ )	(690 V) 55 °C 145 A (690 V) 40 °C 160 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 (690 V) 55 °C 82 A (415 V) 55 °C 110 A (440 V) 55 °C 100 A (380 / 400 V) 55 °C 110 A (500 V) 55 °C 100 A
Rated Operational Power AC-3 ( $P_e$ )	(500 V) 59 kW (1000 V) 40 kW (690 V) 75 kW (220 / 230 / 240 V) 30 kW (380 / 400 V) 55 kW (440 V) 59 kW (415 V) 59 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x $I_e$ AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x $I_e$ 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 15 min 175 A 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 30 s 500 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 1 min 350 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 1160 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 800 A
Maximum Electrical Switching Frequency	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 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 $U_c$ Min. ... 1.1 x $U_c$ Max. (at $\theta \leq 70$ °C) °C
Rated Control Circuit Voltage ( $U_c$ )	60 Hz 220 V 50 Hz 190 V
Coil Consumption	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A
Operate Time	Between Coil Energization and NO Contact Closing 10 ... 25 ms Between Coil De-energization and NO Contact Opening 10 ... 18 ms Between Coil De-energization and NC Contact Closing 7 ... 15 ms Between Coil Energization and NC Contact Opening 7 ... 22 ms
Connecting Capacity Main Circuit	Flexible with Cable End 2 x 6 ... 35 mm <sup>2</sup> Bar 30 mm <sup>2</sup> Rigid 2 x 6 ... 65 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup> Flexible 2x0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2 x 0.75 ... 2.5 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
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## 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 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 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, 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, 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, Closed, Shock Direction: C1 20 g
RoHS Status	Following EU Directive 2011/65/EU

## 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	(208 V AC) Three Phase 30 Hp (440 ... 480 V AC) Three Phase 75 Hp (550 ... 600 V AC) Three Phase 100 Hp (220 ... 240 V AC) Three Phase 40 Hp (200 V AC) Three Phase 30 Hp

## 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	2CMT2016-006391

## Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	140 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	7320500142417

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## Classifications

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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

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## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

