



**Automatización Eléctrica**

Especialistas en Automatización

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# AF400-30-11 100-250V 50/60Hz / 100-250V DC



## General Information

Extended Product Type:	AF400-30-11 100-250V 50/60Hz / 100-250V DC
Product ID:	1SFL577001R7011
EAN:	7320500217665
Catalog Description:	AF400-30-11 100-250V 50/60Hz / 100-250V DC 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 wide control voltage range 100-250 V, AC/DC

## Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Block Contactors  
Parts & Services » Drives » Low voltage AC drives » Legacy AC drives » MoCon

## Ordering

EAN:	7320500217665
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

## Dimensions

Product Net Width:	186.0 mm
Product Net Depth:	216.0 mm
Product Net Height:	278.0 mm
Product Net Weight:	12.000 kg

## Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	260 mm
Package Level 1 Length:	250 mm
Package Level 1 Height:	350 mm
Package Level 1 Gross Weight:	12 kg
Package Level 1 EAN:	7320500217665

## 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 $q = 40^\circ\text{C}$ 600 A
Rated Operational Current AC-1 ( $I_e$ ):	(690 V) $55^\circ\text{C}$ 500 A (690 V) $40^\circ\text{C}$ 600 A (1000 V) $40^\circ\text{C}$ 600 A (1000 V) $55^\circ\text{C}$ 500 A (690 V) $70^\circ\text{C}$ 400 A (1000 V) $70^\circ\text{C}$ 400 A
Rated Operational Current AC-3 ( $I_e$ ):	(1000 V) $55^\circ\text{C}$ 155 A (690 V) $55^\circ\text{C}$ 350 A (415 V) $55^\circ\text{C}$ 400 A (220 / 230 / 240 V) $55^\circ\text{C}$ 400 A (440 V) $55^\circ\text{C}$ 400 A (380 / 400 V) $55^\circ\text{C}$ 400 A (500 V) $55^\circ\text{C}$ 400 A
Rated Operational Power AC-3 ( $P_e$ ):	(500 V) 250 kW (690 V) 315 kW (220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (440 V) 220 kW (415 V) 220 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 630 A

<b>Rated Short-time Withstand Current (<math>I_{cw}</math>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 4400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 4600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 A
<b>Maximum Breaking Capacity:</b>	$\cos \phi=0.45$ ( $\cos \phi=0.35$ for $I_e > 100$ A) at 440 V 4000 A $\cos \phi=0.45$ ( $\cos \phi=0.35$ for $I_e > 100$ A) at 690 V 3500 A
<b>Maximum Electrical Switching Frequency:</b>	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 60 cycles per hour
<b>Rated Operational Current DC-1 (<math>I_e</math>):</b>	(600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A
<b>Rated Operational Current DC-3 (<math>I_e</math>):</b>	(600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A
<b>Rated Operational Current DC-5 (<math>I_e</math>):</b>	(600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Main Circuit 8 kV
<b>Mechanical Durability:</b>	5 million
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x $U_c$ Min. ... 1.1 x $U_c$ Max. (at $\theta \leq 70$ °C) °C
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 955 V·A Holding at Max. Rated Control Circuit Voltage DC 5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 895 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 955 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A
<b>Operate Time:</b>	Between Coil Energization and NO Contact Closing 50 ... 120 ms Between Coil De-energization and NO Contact Opening 48 ... 58 ms Between Coil De-energization and NC Contact Closing 45 ... 55 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms
<b>Connecting Capacity-Main Circuit:</b>	Rigid Al-Cable 2x240 mm <sup>2</sup> Bar 47 mm Rigid Cu-Cable 240 mm <sup>2</sup>
<b>Connecting Capacity-Auxiliary Circuit:</b>	Solid 2x1...4 mm <sup>2</sup> Flexible with Insulated Ferrule 2x0.75...2.5 mm <sup>2</sup> Stranded 2x1...4 mm <sup>2</sup> Flexible 2x0.75...2.5 mm <sup>2</sup> Flexible with Ferrule 2x0.75...2.5 mm <sup>2</sup>
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
<b>Terminal Type:</b>	Main Circuit: Bars

## Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -25...+50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -40...+70 °C Close to Contactor for Storage -40...+70 °C
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: B1 5 g
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>General Use Rating UL/CSA:</b>	(600 V AC) 550 A
<b>Horsepower Rating UL/CSA:</b>	(208 V AC) Three Phase 125 Hp (440 ... 480 V AC) Three Phase 350 Hp

(550 ... 600 V AC) Three Phase 400 Hp  
(220 ... 240 V AC) Three Phase 150 Hp  
(200 V AC) Three Phase 125 Hp

#### Certificates and Declarations (Document Number)

<b>BV Certificate:</b>	11727/C0 BV
<b>CB Certificate:</b>	SE-69493
<b>CCC Certificate:</b>	CQC_2007010304256683
<b>Declaration of Conformity - CE:</b>	1SFA1-65
<b>DNV Certificate:</b>	DNV_E-10966
<b>GL Certificate:</b>	GL_42988-02HH
<b>LOVAG Certificate:</b>	SE-0146190
<b>LR Certificate:</b>	LR_13_20009
<b>RINA Certificate:</b>	ELE060313XG/002
<b>RoHS Information:</b>	1SFC101055D0202

#### Classifications

<b>E-number:</b>	3228335
<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
<b>UNSPSC:</b>	39121529

#### Where Used (as a spare part for "Products")

4 Products (0 listed / 4 unlisted)			Filter <input type="text"/>
Identifier	Description	Qty	Unit Of Measure
FC-0460-0240	No Description Available	1	piece
FC-0460-0300	No Description Available	1	piece
FC-0460-0399	No Description Available	1	piece
FC-0460-0500 DEV 1	No Description Available	1	piece

#### Product specific part data

4 Products			Filter <input type="text"/>
Product	Category	Drive Part Category	
FC-0460-0240	MoCon	Switches, Relays, Contactors	
FC-0460-0300	MoCon	Switches, Relays, Contactors	
FC-0460-0399	MoCon	Switches, Relays, Contactors	
FC-0460-0500 DEV 1	MoCon	Switches, Relays, Contactors	





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- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button](#).

Product	Code	Reference	Product link
AF400-30-11 100-250V 50/60Hz / 100-250V DC Contactor	1SFL577001R7011	AF400-30-11	<a href="#">Buy on EAN</a>