



**Automatización Eléctrica**

Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#)

## General Information

Extended Product Type:	AF1250-30-11 24-60V DC
Product ID:	1SFL647001R6811
EAN:	7320500346075
Catalog Description:	AF1250-30-11 24-60V DC Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 22-60 V, DC

## Categories

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

## Ordering

EAN:	7320500346075
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

## Dimensions

Product Net Width:	210.0 mm
Product Net Depth:	242.0 mm
Product Net Height:	344.0 mm
Product Net Weight:	15.000 kg

## Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	290 mm
Package Level 1 Length:	270 mm
Package Level 1 Height:	350 mm
Package Level 1 Gross Weight:	15 kg
Package Level 1 EAN:	7320500346075

## 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
Conventional Free-air Thermal Current ( $I_{th}$ ):	acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 1050 A
Rated Operational Current AC-1 ( $I_e$ ):	(690 V) $55^\circ\text{C}$ 1040 A (690 V) $40^\circ\text{C}$ 1260 A (1000 V) $40^\circ\text{C}$ 1260 A (1000 V) $55^\circ\text{C}$ 1040 A (690 V) $70^\circ\text{C}$ 875 A (1000 V) $70^\circ\text{C}$ 875 A
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
Rated Short-time Withstand Current ( $I_{cw}$ ):	at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 30 s 6000 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 15 min 1600 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 10 s 8000 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 s 10000 A at $40^\circ\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 min 4500 A
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 7500 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 7000 A
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour
Rated Operational Current DC-1 ( $I_e$ ):	(850 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A (600 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A (220 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A
Rated Operational Current DC-3 ( $I_e$ ):	(850 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A (600 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A (220 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A
Rated Operational Current DC-5 ( $I_e$ ):	(850 V) 3 Poles in Series, $40^\circ\text{C}$ 1250 A

	(600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 A
<b>Rated Insulation Voltage (U<sub>i</sub>):</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 (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Mechanical Durability:</b>	0.5 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 <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\theta \leq 70$ °C) °C
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	DC Operation 20 ... 60 V
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 780 V·A Holding at Max. Rated Control Circuit Voltage DC 5.5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 785 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 780 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 53 ... 73 ms Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms
<b>Connecting Capacity-Main Circuit:</b>	Bar 50 mm
<b>Connecting Capacity-Auxiliary Circuit:</b>	Solid 2x1...4 mm <sup>2</sup> Flexible with Insulated Ferrule 1x0.75...2.5 mm <sup>2</sup> Stranded 2x1...4 mm <sup>2</sup> Flexible 1x0.75...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>Connecting terminals (delivered in open position) Main poles:</b>	M 3.5 (+,-) pozidriv 2 screw with cable clamp
<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 <sub>c</sub> ) -25...+50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -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: C1 5 g Shock Direction: B2 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) 1210 A

## Certificates and Declarations (Document Number)

<b>CB Certificate:</b>	SE-72146
<b>CCC Certificate:</b>	CQC_2006010304213519
<b>Declaration of Conformity - CE:</b>	1SFA1-88
<b>RINA Certificate:</b>	ELE060313XG/002
<b>RoHS Information:</b>	1SFC101055D0202

## Classifications

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





**Automatización Eléctrica**  
Especialistas en Automatización

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

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

Product	Code	Reference	Product link
AF1250-30-11 24-60V DC Contactor	1SFL647001R6811	AF1250-30-11	<a href="#">Buy on EAN</a>