



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:	AF305-40-11-14
Product ID:	1SFL587102R1411
EAN:	7320500504970
Catalog Description:	AF305-40-11-14 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 250-500 V, 50/60 Hz and DC

Categories

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

Ordering

EAN:	7320500504970
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	184,4 mm
Product Net Depth:	180 mm
Product Net Height:	225,4 mm
Product Net Weight:	5.55 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Gross Weight:	6.38 kg

Technical

Number of Main Contacts NO:	4
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 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 500 A
Rated Operational Current AC-1 (I_e):	(690 V) 40°C 500 A (1000 V) 40°C 375 A (690 V) 70°C 325 A (690 V) 60°C 400 A (1000 V) 60°C 325 A (1000 V) 70°C 260 A
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) 55°C 305 A (415 V) 55°C 305 A (440 V) 55°C 305 A (380 / 400 V) 55°C 305 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 90 kW (380 / 400 V) 160 kW (440 V) 160 kW (415 V) 160 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
Rated Short-time Withstand Current (I_{cw}):	at 40°C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40°C Ambient Temp, in Free Air, from a Cold State 30 s 1409 A at 40°C Ambient Temp, in Free Air, from a Cold State 10 s 2440 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 s 3050 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 min 996 A
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 4600 A
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour
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	Main Circuit 8 kV

(U_{imp}):	
Mechanical Durability:	5 million
Maximum Mechanical Switching Frequency:	300 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 $\theta \leq 70\text{ °C}$) °C
Rated Control Circuit Voltage (U_c):	60 Hz 250...500 V 50 Hz 250...500 V DC Operation 250...500 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 420 V·A Holding at Max. Rated Control Circuit Voltage DC 4.7 W Holding at Max. Rated Control Circuit Voltage 50 Hz 20.4 V·A Pull-in at Max. Rated Control Circuit Voltage DC 600 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 420 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 20.4 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 30...60 ms Between Coil De-energization and NO Contact Opening 45...80 ms
Connecting Capacity-Main Circuit:	Rigid Al-Cable 1x185...240 mm ² Rigid Cu-Cable 1x6...300 mm ² Flexible 1x16...240 mm ²
Connecting Capacity-Auxiliary Circuit:	Solid 2x1...4 mm ² Flexible with Insulated Ferrule 2x0.75...2.5 mm ² Stranded 1x1...4 mm ² Flexible 1x0.75...2.5 mm ² Flexible with Ferrule 2x0.75...2.5 mm ²
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 IP00
Terminal Type:	Main Circuit: Bars

Environmental

Ambient Air Temperature:	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
Maximum Operating Altitude Permissible:	3000 m

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
--	--------------------

Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
----------------	---





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
AF305-40-11-14 Contactor	1SFL587102R1411	AF305-40-11-14	Buy on EAN