



**Automatización Eléctrica**

Especialistas en Automatización

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## General Information

Extended Product Type:	AF370-40-11-14
Product ID:	1SFL607102R1411
EAN:	7320500504420
Catalog Description:	AF370-40-11-14 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:	7320500504420
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 $q = 40$ °C 525 A
Rated Operational Current AC-1 ( $I_e$ ):	(690 V) 40 °C 525 A (1000 V) 40 °C 400 A (690 V) 70 °C 350 A (690 V) 60 °C 425 A (1000 V) 60 °C 350 A (1000 V) 70 °C 290 A
Rated Operational Current AC-3 ( $I_e$ ):	(220 / 230 / 240 V) 55 °C 370 A (415 V) 55 °C 370 A (440 V) 55 °C 370 A (380 / 400 V) 55 °C 370 A
Rated Operational Power AC-3 ( $P_e$ ):	(220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (440 V) 200 kW (415 V) 200 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 10 s 2960 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1709 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1208 A
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 5000 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

<b>(U<sub>imp</sub>):</b>	
<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 <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\theta \leq 70$ °C)
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 250...500 V 50 Hz 250...500 V DC Operation 250...500 V
<b>Coil Consumption:</b>	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
<b>Operate Time:</b>	Between Coil Energization and NO Contact Closing 30...60 ms Between Coil De-energization and NO Contact Opening 45...80 ms
<b>Connecting Capacity-Main Circuit:</b>	Rigid Al-Cable 1x185...240 mm <sup>2</sup> Flexible 2x70...185 mm <sup>2</sup> Rigid Cu-Cable 2x70...185 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 1x1...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>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

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
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## Classifications

<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
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<b>Product</b>	<b>Code</b>	<b>Reference</b>	<b>Product link</b>
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