



**Automatización Eléctrica**

Especialistas en Automatización

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## General Information

Extended Product Type:	AF305-30-22-11 24-60V 50/60Hz / DC
Product ID:	1SFL587002R1122
EAN:	7320500481721
Catalog Description:	AF305-30-22-11 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 24-60 V, 50 and 60 Hz, 20-60 V DC

## Categories

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

## Ordering

EAN:	7320500481721
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

## Dimensions

Product Net Width:	140.0 mm
Product Net Depth:	180.0 mm
Product Net Height:	225.0 mm
Product Net Weight:	4.675 kg

## Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	223 mm
Package Level 1 Length:	175 mm
Package Level 1 Height:	270 mm
Package Level 1 Gross Weight:	5.345 kg
Package Level 1 EAN:	7320500481721

## Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	2
Number of Auxiliary Contacts NC:	2
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 $q = 40^\circ\text{C}$ 500 A
Rated Operational Current AC-1 ( $I_e$ ):	(690 V) 55 °C 400 A (690 V) 40 °C 500 A (1000 V) 40 °C 375 A (1000 V) 55 °C 325 A (690 V) 70 °C 325 A (1000 V) 70 °C 260 A
Rated Operational Current AC-3 ( $I_e$ ):	(1000 V) 55 °C 100 A (220 / 230 / 240 V) 55 °C 305 A (690 V) 55 °C 290 A (415 V) 55 °C 305 A (440 V) 55 °C 305 A (380 / 400 V) 55 °C 305 A (500 V) 55 °C 290 A
Rated Operational Power AC-3 ( $P_e$ ):	(500 V) 200 kW (1000 V) 132 kW (690 V) 250 kW (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 500 A
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A

<b>(I<sub>cw</sub>):</b>	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
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 4600 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 3800 A
<b>Maximum Electrical Switching Frequency:</b>	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
<b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 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>	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 θ ≤ 70 °C) °C
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 24...60 V 50 Hz 24...60 V DC Operation 20...60 V
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 475 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Holding at Max. Rated Control Circuit Voltage 50 Hz 8.5 V·A Pull-in at Max. Rated Control Circuit Voltage DC 400 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 475 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 8.5 V·A
<b>Operate Time:</b>	Between Coil Energization and NO Contact Closing 25...55 ms Between Coil De-energization and NO Contact Opening 37...47 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 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>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>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) 400 A
<b>Horsepower Rating UL/CSA:</b>	(208 V AC) Three Phase 100 Hp (440 ... 480 V AC) Three Phase 250 Hp (550 ... 600 V AC) Three Phase 300 Hp (220 ... 240 V AC) Three Phase 125 Hp (200 V AC) Three Phase 100 Hp

## Certificates and Declarations (Document Number)

<b>CB Certificate:</b>	SE-73043M1
<b>Declaration of Conformity - CE:</b>	2CMT004749
<b>RINA Certificate:</b>	ELE060313XG/002
<b>RoHS Information:</b>	1SFC101055D0202

## Classifications

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