



**Electric Automation**  
Automation specialists

Reference: AF305-30-22-14  
Code: 1SFL587002R1422

AF305-30-22-14 Contactor

Buy it at Electric Automation Network



A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 250-500 V, 50/60 Hz and DC

### Ordering

EAN:	7320500481813
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:	7320500481813

## 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 $q = 40\text{ °C}$ 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 (220 / 230 / 240 V) 90 kW (690 V) 250 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 ( $I_{cw}$ ):	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 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 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 cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 3800 A
Maximum Electrical Switching Frequency:	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour

Rated Operational Current DC-1 ( $I_e$ ):	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
Rated Operational Current DC-3 ( $I_e$ ):	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
Rated Operational Current DC-5 ( $I_e$ ):	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
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 ( $U_{imp}$ ):	Main Circuit 8 kV
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 $\theta \leq 70$ °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 25...55 ms Between Coil De-energization and NO Contact Opening 37...47 ms
Connecting Capacity-Main Circuit:	Rigid Al-Cable 1x185...240 mm <sup>2</sup> Flexible 2x70...185 mm <sup>2</sup> Rigid Cu-Cable 1x6...300 mm <sup>2</sup>
Connecting Capacity-Auxiliary Circuit:	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>
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

RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
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## Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
General Use Rating UL/CSA:	(600 V AC) 400 A
Horsepower Rating UL/CSA:	(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)

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

## Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529