



**Electric Automation**  
Automation specialists

Reference: AF305-40-11-14  
Code: 1SFL587102R1411

AF305-40-11-14 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:	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 $\theta = 40\text{ °C}$ 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 ( $U_{imp}$ ):	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 $\theta \leq 70\text{ °C}$ ) °C
Rated Control Circuit Voltage ( $U_c$ ):	60 Hz 250...500 V 50 Hz 250...500 V DC Operation 250...500 V

Coil Consumption:	<p>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 420 V·A</p> <p>Holding at Max. Rated Control Circuit Voltage DC 4.7 W</p> <p>Holding at Max. Rated Control Circuit Voltage 50 Hz 20.4 V·A</p> <p>Pull-in at Max. Rated Control Circuit Voltage DC 600 W</p> <p>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 420 V·A</p> <p>Holding at Max. Rated Control Circuit Voltage 60 Hz 20.4 V·A</p>
Operate Time:	<p>Between Coil Energization and NO Contact Closing 30...60 ms</p> <p>Between Coil De-energization and NO Contact Opening 45...80 ms</p>
Connecting Capacity-Main Circuit:	<p>Rigid Al-Cable 1x185...240 mm<sup>2</sup></p> <p>Rigid Cu-Cable 1x6...300 mm<sup>2</sup></p> <p>Flexible 1x16...240 mm<sup>2</sup></p>
Connecting Capacity-Auxiliary Circuit:	<p>Solid 2x1...4 mm<sup>2</sup></p> <p>Flexible with Insulated Ferrule 2x0.75...2.5 mm<sup>2</sup></p> <p>Stranded 1x1...4 mm<sup>2</sup></p> <p>Flexible 1x0.75...2.5 mm<sup>2</sup></p> <p>Flexible with Ferrule 2x0.75...2.5 mm<sup>2</sup></p>
Degree of Protection:	<p>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20</p> <p>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00</p>
Terminal Type:	Main Circuit: Bars

## Environmental

Ambient Air Temperature:	<p>Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25...+50 °C</p> <p>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40...+70 °C</p> <p>Close to Contactor for Storage -40...+70 °C</p>
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
---------	---