



Electric Automation
Automation specialists

Reference: AF140-40-11-12
Code: 1SFL447101R1211

AF140-40-11-12 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 690 V. Operated with wide control voltage range 48-130 V, 50/60 Hz and DC

Ordering

EAN:	7320500503751
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	120 mm
Product Net Depth:	128,1 mm
Product Net Height:	150 mm
Product Net Weight:	2.07 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Gross Weight:	2.27 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 690 V
Rated Frequency (f):	Main Circuit 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $\theta = 40\text{ °C}$ 200 A
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 200 A (690 V) 70 °C 160 A (690 V) 60 °C 175 A
Rated Operational Current AC-3 (I_e):	(415 V) 55 °C 140 A (220 / 230 / 240 V) 55 °C 140 A (440 V) 55 °C 140 A (380 / 400 V) 55 °C 140 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 37 kW (380 / 400 V) 75 kW (440 V) 90 kW (415 V) 75 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 250 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 3000 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) $0.85 \times U_c$ Min. ... $1.1 \times U_c$ Max. (at $\theta \leq 70\text{ °C}$) °C
Rated Control Circuit Voltage (U_c):	60 Hz 48...130 V 50 Hz 48...130 V DC Operation 48...130 V

Coil Consumption:	<p>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 170 V·A</p> <p>Holding at Max. Rated Control Circuit Voltage DC 2.5 W</p> <p>Holding at Max. Rated Control Circuit Voltage 50 Hz 4 V·A</p> <p>Pull-in at Max. Rated Control Circuit Voltage DC 130 W</p> <p>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 170 V·A</p> <p>Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V·A</p>
Operate Time:	<p>Between Coil Energization and NO Contact Closing 20...55 ms</p> <p>Between Coil De-energization and NO Contact Opening 40...70 ms</p>
Connecting Capacity-Main Circuit:	<p>Flexible 1x10...70 mm²</p> <p>Rigid Cu-Cable 2x10...95 mm²</p>
Connecting Capacity-Auxiliary Circuit:	<p>Solid 1x1...4 mm²</p> <p>Flexible with Insulated Ferrule 2x0.75...2.5 mm²</p> <p>Stranded 2x1...4 mm²</p> <p>Flexible 1x0.75...2.5 mm²</p> <p>Flexible with Ferrule 2x0.75...2.5 mm²</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:	Double Clamp

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
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Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
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