Reference: AF116-40-11-14
Code: 1SFL427101R1411

AF116-40-11-14 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 690 V. Operated with wide control voltage range 250-500 V, 50/60 Hz and DC

Ordering

EAN:	7320500503928
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 50 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 160 A (690 V) 70 °C 130 A (690 V) 60 °C 145 A
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) 55 °C 116 A (415 V) 55 °C 116 A (440 V) 55 °C 116 A (380 / 400 V) 55 °C 116 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 30 kW (380 / 400 V) 55 kW (440 V) 75 kW (415 V) 55 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x Ie AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x Ie AC-3
Short-Circuit Protective Devices:	gG Type Fuses 200 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 2000 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 Uc Min. ... 1.1 x Uc Max. (at θ ≤ 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 205 V·A Holding at Max. Rated Control Circuit Voltage DC 4 W Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A Pull-in at Max. Rated Control Circuit Voltage DC 204 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 205 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 20…55 ms Between Coil De-energization and NO Contact Opening 40…70 ms
Connecting Capacity-Main Circuit:	Rigid Cu-Cable 1x10…95 mm² Flexible 2x10…70 mm²
Connecting Capacity-Auxiliary Circuit:	Solid 2x1…4 mm² Flexible with Insulated Ferrule 2x0.75…2.5 mm² Stranded 2x1…4 mm² Flexible 2x0.75…2.5 mm² Flexible with Ferrule 2x0.75…2.5 mm²
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:	Double Clamp

Environmental

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