AF140-40-11-12



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

General Information

Extended Product Type: AF140-40-11-12

Product ID: 1SFL447101R1211

EAN: 7320500503751

Catalog Description: AF140-40-11-12 Contactor

Long Description: A 3-phase Contactor suitable for various applications such as Motor startin

g, Isolation, By-pass and Distribution application up to max 690 V. Operate

d with wide control voltage range 48-130 V, 50/60 Hz and DC

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Dimensions

Product Net Width: 120 mm

Product Net Depth / Length: 128,1 mm

Product Net Height: 150 mm

Product Net Weight: 2.07 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 (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 200 A

Rated Operational Current AC-1

(I_e): (690 V) 70 °C 160 A

(690 V) 60 °C 175 A

(690 V) 40 °C 200 A

Rated Operational Current AC-3

(415 V) 55 °C 140 A

(I_e): (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 le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x le 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 le > 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 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °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:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 170 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 4 V·A Pull-in at Max. Rated Control Circuit Voltage DC 130 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 170 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V·A
Operate Time:	Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 ms
Connecting Capacity Main Circuit:	Flexible 1 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²
Connecting Capacity Auxiliary Circuit:	Solid 1 x 1 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 2.5 mm ² Stranded 2 x 1 4 mm ² Flexible 1x0.75 2.5 mm ² Flexible with Ferrule 2 x 0.75 2.5 mm ²

acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 **Degree of Protection:** 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** 3000 m Permissible: Technical UL/CSA **Maximum Operating Voltage** Main Circuit 600 V **UL/CSA:** General Use Rating UL/CSA: (600 V AC) 200 A Certificates and Declarations (Document Number) **CB Certificate:** SEMKO_SE-77317 **CCC Certificate:** 2013010304604055 **cUL Certificate:** E73397_20140710 **DNV GL Certificate:** DNV E-14043 LR Certificate: LR 14 70011(E1)

Container Information

Package Level 1 Units: 1 piece

Package Level 1 Gross Weight: 2.27 kg

Package Level 1 EAN: 7320500503751

Classifications

Object Classification Code: Q

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

ETIM 6: EC000066 - Power contactor, AC switching

