AF190-40-11-12



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

General Information

Extended Product Type: AF190-40-11-12 **Product ID:** 1SFL487102R1211 EAN: 7320500504246

AF190-40-11-12 Contactor **Catalog Description:**

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

g, Isolation, By-pass and Distribution application up to max 1000 V. Operat

ed 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: 140 mm

Product Net Depth / Length: 152,6 mm

Product Net Height: 195,6 mm

Product Net Weight: 3.37 kg

Technical

Number of Main Contacts NO: 4

0 **Number of Main Contacts NC:**

Number of Auxiliary Contacts NO: 1

Number of Auxiliary Contacts NC: 1

Rated Operational Voltage: Main Circuit 1000 V

Main Circuit 50 Hz Rated Frequency (f):

Conventional Free-air Thermal

Current (Ith):

Rated Operational Current AC-1

(l_e):

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 275 A

(690 V) 40 °C 275 A

(1000 V) 40 °C 250 A (690 V) 70 °C 200 A (690 V) 60 °C 250 A (1000 V) 60 °C 225 A (1000 V) 70 °C 185 A

(415 V) 55 °C 190 A **Rated Operational Current AC-3**

(l_e):

(220 / 230 / 240 V) 55 °C 190 A

(440 V) 55 °C 190 A (380 / 400 V) 55 °C 190 A

Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 55 kW (380 / 400 V) 90 kW (440 V) 110 kW (415 V) 90 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 355 A
Rated Short-time Withstand Current (I _{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 878 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 275 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1520 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1900 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 621 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3300 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 175 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 175 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V·A
Operate Time:	Between Coil De-energization and NO Contact Opening 45 80 ms Between Coil Energization and NO Contact Closing 25 60 ms
Connecting Capacity Main Circuit:	Rigid Al-Cable 1 x 95 185 mm² Flexible 1 x 6 120 mm Rigid Cu-Cable 1 x 6 150 mm²
Connecting Capacity Auxiliary Circuit:	Solid 2 x 1 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 2.5 mm ² Stranded 1 x 1 4 mm ² Flexible 2x0.75 2.5 mm ² Flexible with Ferrule 2 x 0.75 2.5 mm ²

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 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

General Use Rating UL/CSA: (600 V AC) 250 A

Certificates and Declarations (Document Number)

CB Certificate: SEMKO SE-77322

CCC Certificate: CQC 2014010304676685

cUL Certificate: 20140925-E73397

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: 3.92 kg

Package Level 1 EAN: 7320500504246

Classifications

Object Classification Code: Q

E-nummer: 3210326

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

ETIM 6: EC000066 - Power contactor, AC switching

