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AF190-30-11-11 24-60V 50/60Hz / 20-60V DC



General Information

Extended Product Type: AF190-30-11-11 24-60V 50/60Hz / 20-60V DC

 Product ID:
 1SFL487002R1111

 EAN:
 7320500480410

Catalog Description: AF190-30-11-11 Contactor

Long Description: 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 24-60 V, 50 and 60 Hz, 20-60 V DC

Categories

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

Ordering

EAN:	7320500480410
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	105.0 mm
Product Net Depth:	152.0 mm
Product Net Height:	196.0 mm
Product Net Weight:	2.778 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	223 mm
Package Level 1 Length:	133 mm
Package Level 1 Height:	186 mm
Package Level 1 Gross Weight:	3.228 kg
Package Level 1 EAN:	7320500480410

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
Date of Operational Voltages	Main Circuit 1000 V

Rated Operational Voltage: Main Circuit 1000 V
Rated Frequency (f): Main Circuit 50/60 Hz

Conventional Free-air Thermal

Current (I_{th}):

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

Rated Operational Current AC-1 (I_e): (690 V) 55 °C 250 A

(690 V) 40 °C 275 A (1000 V) 40 °C 250 A (1000 V) 55 °C 225 A (690 V) 70 °C 200 A (1000 V) 70 °C 185 A

(500 V) 55 °C 135 A

Rated Operational Current AC-3 (I_e): (1000 V) 55 °C 85 A

(415 V) 55 °C 190 A (690 V) 55 °C 135 A (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 (Pe): (500 V) 90 kW

(1000 V) 110 kW (220 / 230 / 240 V) 55 kW (690 V) 132 kW (380 / 400 V) 90 kW (440 V) 110 kW (415 V) 90 kW

Rated Breaking Capacity AC-3 acc. 8 x le AC-3

to IEC 60947-4-1:

IEC 60947-4-1:

Short-Circuit Protective Devices: gG Type Fuses 355 A

Rated Short-time Withstand Current 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 30 s 878 A (I_{cw}) : 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 cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3300 A **Maximum Breaking Capacity:** cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 2200 A **Maximum Electrical Switching** AC-3 300 cycles per hour Frequency: AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour Rated Operational Current DC-1 (Ie): (110 V) 2 Poles in Series, 40 °C 250 A (220 V) 3 Poles in Series, 40 °C 250 A Rated Operational Current DC-3 (Ie): (110 V) 2 Poles in Series, 40 °C 250 A (220 V) 3 Poles in Series, 40 °C 250 A Rated Operational Current DC-5 (Ie): (110 V) 2 Poles in Series, 40 °C 250 A (220 V) 3 Poles in Series, 40 °C 250 A Rated Insulation Voltage (Ui): acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Impulse Withstand Voltage Main Circuit 8 kV (U_{imp}): **Mechanical Durability:** 5 million **Maximum Mechanical Switching** 300 cycles per hour Frequency: (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \le 70$ °C) °C **Coil Operating Limits:** Rated Control Circuit Voltage (Uc): 60 Hz 24...60 V 50 Hz 24...60 V DC Operation 20...60 V **Coil Consumption:** Pull-in at Max. Rated Control Circuit Voltage 60 Hz 165 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Pull-in at Max. Rated Control Circuit Voltage DC 205 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 165 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A **Operate Time:** Between Coil Energization and NO Contact Closing 25...55 ms Between Coil De-energization and NO Contact Opening 37...47 ms **Connecting Capacity-Main Circuit:** Rigid Al-Cable 1x95...185 mm² Flexible 2x50...95 mm² Rigid Cu-Cable 2x50...120 mm² Solid 2x1...4 mm² **Connecting Capacity-Auxiliary** Flexible with Insulated Ferrule 2x0.75...2.5 mm² Circuit: Stranded 2x1...4 mm² Flexible 2x0.75...2.5 mm² Flexible with Ferrule 2x0.75...2.5 mm² 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:** Main Circuit: Bars **Environmental** Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25...+50 °C **Ambient Air Temperature:** 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: **RoHS Status:** Following EU Directive 2002/95/EC August 18, 2005 and amendment Technical UL/CSA **Maximum Operating Voltage** Main Circuit 600 V UL/CSA: General Use Rating UL/CSA: (600 V AC) 250 A Horsepower Rating UL/CSA: (208 V AC) Three Phase 50 Hp (440 ... 480 V AC) Three Phase 125 Hp (550 ... 600 V AC) Three Phase 150 Hp (220 ... 240 V AC) Three Phase 60 Hp (200 V AC) Three Phase 50 Hp Certificates and Declarations (Document Number) **CB Certificate:** SE-71797M1 **Declaration of Conformity - CE:** 2CMT004613 RINA Certificate: ELE060313XG/002 **RoHS Information:** 1SFC101055D0202

E-nummer: 3210132

Classifications

ETIM 5: EC000066 - Magnet contactor, AC-switching

UNSPSC: 39121529







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