AF140-30-11-11 24-60V 50/60Hz / 20-60V DC

General Information

Extended Product Type:	AF140-30-11-11 24-60V 50/60Hz / 20-60V DC
Product ID:	1SFL447001R1111
EAN:	7320500477069
Catalog Description:	AF140-30-11-11 Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 690 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

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
EAN:	7320500477069

Dimensions

Product Net Depth:	126.0 mm
Product Net Height:	150.0 mm
Product Net Weight:	1.644 kg
Product Net Width:	90.0 mm

Container Information

Package Level 1 Width:	194 mm
Package Level 1 Length:	115 mm
Package Level 1 Height:	169 mm
Package Level 1 Gross Weight:	1.774 kg
Package Level 1 EAN:	7320500477069
Package Level 1 Units:	1 piece

Technical

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 50/60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 200 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 175 A (690 V) 40 °C 200 A (690 V) 70 °C 160 A
Rated Operational Current AC-3 (I_e):	(415 V) 55 °C 140 A (690 V) 55 °C 80 A (220 / 230 / 240 V) 55 °C 140 A (440 V) 55 °C 140 A (380 / 400 V) 55 °C 140 A (500 V) 55 °C 130 A
Rated Operational Power AC-3 (P_e):	(500 V) 90 kW (220 / 230 / 240 V) 37 kW (690 V) 75 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 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 315 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 Ie > 100 A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 1500 A

Maximum Electrical Switching Frequency:	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
Rated Operational Current DC-1 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Operational Current DC-3 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Operational Current DC-5 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 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 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 225 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage DC 210 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 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 Cu-Cable 2x10…95 mm² Flexible 1x10…70 mm²
Connecting Capacity Auxiliary Circuit:	Solid 2x1…4 mm² Flexible with Insulated Ferrule 2x0.75…2.5 mm² Stranded 2x1…4 mm² Flexible 1x0.75…2.5 mm² Flexible with Ferrule 1x0.75…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
Number of Main Contacts NO:	3

Environmental

Maximum Operating Altitude Permissible:	3000 m
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
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

Technical UL/CSA

General Use Rating UL/CSA:	(600 V AC) 200 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 40 Hp (440 ... 480 V AC) Three Phase 100 Hp (550 ... 600 V AC) Three Phase 125 Hp (220 ... 240 V AC) Three Phase 50 Hp (200 V AC) Three Phase 40 Hp
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V

Certificates and Declarations (Document Number)

Instructions and Manuals:	1SFC100003M0201
CB Certificate:	SE-70480
CCC Certificate:	CQC_2013010304604055
Data Sheet, Technical Information:	1SFC101070D0201
Declaration of Conformity - CE:	2CMT004242
RINA Certificate:	ELE060313XG/002
RoHS Information:	1SFC101055D0202

Classifications

ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529

Object Classification Code:	Q