AF116-30-11-13



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

Parts & Services + Robotics + Controllers + IRC5 + IRC5 Process Module

General Information

Extended Product Type: AF116-30-11-13 **Product ID:** 1SFL427001R1311

EAN: 7320500476376

AF116-30-11-13 Contactor **Catalog Description:**

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

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

d with wide control voltage range 100-250 V, 50/60 Hz and DC

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SFC101070D0201

Instructions and Manuals: 1SFC100003M0201

Dimension Diagram: 1SFB535001G1051

Dimensions

Product Net Width: 90.0 mm

Product Net Depth / Length: 126.0 mm

Product Net Height: 150.0 mm

Product Net Weight: 1.644 kg

Technical

Number of Main Contacts NO: 3

0 **Number of Main Contacts NC:**

Number of Auxiliary Contacts NO: 1

1 **Number of Auxiliary Contacts NC:**

Main Circuit 690 V **Rated Operational Voltage:**

Main Circuit 50/60 Hz Rated Frequency (f):

Conventional Free-air Thermal

Current (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A

Rated Operational Current AC-1

(690 V) 40 °C 160 A (l_e):

(690 V) 55 °C 145 A

(690 V) 70 °C 130 A

Rated Operational Current AC-3 (I _e):	(690 V) 55 °C 65 A (415 V) 55 °C 116 A (220 / 230 / 240 V) 55 °C 116 A (440 V) 55 °C 116 A (380 / 400 V) 55 °C 116 A (500 V) 55 °C 110 A
Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 30 kW (380 / 400 V) 55 kW (415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 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 15 min 160 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 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 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 le > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1000 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 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-3 (I _e):	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-5 (I _e):	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 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 100 250 V 50 Hz 100 250 V DC Operation 100 250 V

Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Pull-in at Max. Rated Control Circuit Voltage DC 135 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A
Operate Time:	Between Coil De-energization and NO Contact Opening 37 47 ms Between Coil Energization and NO Contact Closing 25 55 ms
Connecting Capacity Main Circuit:	Flexible 2 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²
Connecting Capacity Auxiliary Circuit:	Solid 2 x 1 4 mm ² Flexible with Insulated Ferrule 1 x 0.75 2.5 mm ² Stranded 2 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:	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
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
echnical UL/CSA	
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
General Use Rating UL/CSA:	(600 V AC) 160 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 30 Hp (440 480 V AC) Three Phase 75 Hp (550 600 V AC) Three Phase 100 Hp (220 240 V AC) Three Phase 40 Hp (200 V AC) Three Phase 30 Hp
Certificates and Declarations (D	Document Number)
ABS Certificate:	14-LD1092198-PDA

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ABS Certificate:	14-LD1092198-PDA
BV Certificate:	BV_36353_A0BV
CB Certificate:	SEMKO_SE-70479M1
CCC Certificate:	2013010304604055
CCS Certificate:	GB14T00030

cUL Certificate:	20120925-E36588
Declaration of Conformity - CE:	2CMT004242
DNV Certificate:	DNV_E-14043
EAC Certificate:	EAC_RUC-SE.ME77.B.01005
Environmental Information:	2CMT004732
GL Certificate:	GL_95071-14HH
Instructions and Manuals:	1SFC100003M0201
LR Certificate:	LR_14_70011(E1)
PRS Certificate:	TE_2092_880423_16
RINA Certificate:	ELE060313XG_002
RMRS Certificate:	9AKK107045A6978
RoHS Information:	1SFC101055D0202
UL Listing Card:	UL_E36588

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	194 mm
Package Level 1 Depth / Length:	115 mm
Package Level 1 Height:	169 mm
Package Level 1 Gross Weight:	1.57 kg
Package Level 1 EAN:	7320500476376

Classifications

Object Classification Code:	Q
E-nummer:	3210068
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529

