

#### **PRODUCT-DETAILS**

## AFS116-30-12-12 AFS116-30-12-12



General Information	
Extended Product Type	AFS116-30-12-12
Product ID	1SFL427081R1212
EAN	7320500540725

Catalog Description AFS116-30-12-12

left (1 N.O + 1 N.C.) and fixed 1 right (1 N.C.) side mounted auxiliary contact blocks with double clamp connections, controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL and switching power circuits up to 160 A (AC-1) or 160 A UL general use. AFS contactors can be easily integrated in machine manufacturer's systems complying with main standards EN ISO 13849 and EN 62061 - guaranteeing the safe use of your machinery and equipment. An easily identifiable yellow low energy auxiliary contact block ensures the status feedback circuits required in machine safety applications. Thanks to the AF technology, the contactor has a wide control voltage range (48-130 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended

with add-on auxiliary contact blocks and an additional wide range of accessories.

1 piece

The AFS116-30-12-12 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted 1

Long Description

# Ordering Minimum Order Quantity

Customs Tariff Number 85364900

### Popular Downloads

Data Sheet, Technical 1SBC100208C02\_
Information 1SBC100208C02\_

Instructions and Manuals 1SFC100003M0201

Dimensions	
Product Net Width	90 mm
Product Net Depth / Length	126 mm
Product Net Height	150 mm
Product Net Weight	1.55 kg
Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 160 (690 V) 60 °C 145 A (690 V) 70 °C 130
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 56 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-	8 x le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 250 A
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	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 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 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 30 s 536 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-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Rated Operational Current DC-1 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Insulation Voltage	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V

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Rated Impulse Withstand	Main Circuit 8 k\
Voltage (Ü <sub>imp</sub> )	
Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hou
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta$ $\leq$ 70 °C
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 48 130 \ 60 Hz 48 130 \ DC Operation 48 130 \
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 4 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V-A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 180 V-A Pull-in at Max. Rated Control Circuit Voltage DC 150 W
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 1 x 10 95 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 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
	Main Circuit 600 V (600 V AC) 160 A
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating JL/CSA	(600 V AC) 160 A
Horsepower Rating JL/CSA	(200 208 V AC) Three Phase 30 hp (220 240 V AC) Three Phase 40 hp (440 480 V AC) Three Phase 75 hp (550 600 V AC) Three Phase 100 hp
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	Without Derating 3000 m
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Certificates and Declarations (D	ocument Number)
`	SEMKO_SE-70479M1
CB Certificate	SEMKO_SE-70479M1
CB Certificate CQC Certificate cUL Certificate	SEMKO_SE-70479M1 CQC2013010304604055 20120925-E36588
CB Certificate CQC Certificate cUL Certificate Declaration of Conformity	SEMKO_SE-70479M1 CQC2013010304604055 20120925-E36588
CB Certificate  CQC Certificate  CUL Certificate  Declaration of Conformity  CCC  Declaration of Conformity	SEMKO_SE-70479M1 CQC2013010304604055 20120925-E36588 2020980304001304
Certificates and Declarations (D CB Certificate CQC Certificate cUL Certificate Declaration of Conformity - CCC Declaration of Conformity - CE EAC Certificate	ocument Number)  SEMKO_SE-70479M1  CQC2013010304604055  20120925-E36588  2020980304001304  2CMT2018-005695
CB Certificate  CQC Certificate  cUL Certificate  Declaration of Conformity - CCC  Declaration of Conformity - CE	SEMKO_SE-70479M1 CQC2013010304604055 20120925-E36588 2020980304001304 2CMT2018-005695

2CMT2019-005856

SUVA Certificate

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Container Information		
Package Level 1 Units	box 1 piece	
Package Level 1 Width	207 mm	
Package Level 1 Depth / Length	216 mm	
Package Level 1 Height	150 mm	
Package Level 1 Gross Weight	1.75 kg	
Package Level 1 EAN	7320500540725	

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
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors
E-Number (Finland)	3708091

### Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Block Contactors

