

PRODUCT-DETAILS

AFS116-30-12-34 AFS116-30-12-34



General Information	
Extended Product Type	AFS116-30-12-34
Product ID	1SFL427081R3412
EAN	7320500540688

Catalog Description AFS116-30-12-34

> lett (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 (250-500 V 50(60 Hz and DC) technology, the contactor has a wide control voltage range (250-500 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.

The AFS116-30-12-34 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted 1 left (1 N.O + 1 N.C.) and fixed 1 right (1 N.C.) side mounted auxiliary contact blocks with

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.

Long Description

Ordering Minimum Order Quantity 1 piece **Customs Tariff Number** 85364900

Popular Downloads

Data Sheet, Technical 1SBC100208C02_ Information

Instructions and Manuals 1SFC100003M0201

Product Net Depth / Longth 150 mm Product Net Height 150 mm Product Net Weight 1.55 kg 1.55 k	Dimensions	
Technical	Product Net Width	90 mm
Technical		126 mm
Number of Main Contacts NC	Product Net Height	150 mm
Number of Main Contacts NO Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Rated Operational Voltage Rated Operational Voltage Rated Frequency (f) Rated Frequency (f) Rated Operational Current Corrent (I _{III}) Rated Operational Current (AC-1 (I _{II}) Rated Operational Current (AC-3 (I _{II}) Rated Operational Power (AC-3 (I _{II}) Rated Making Capacity AC-3 acc. to IEC 60947-4- 1 Rated Making Capacity AC-3 acc. to IEC 60947-4- 1 Short-Circuit Protective Devices Rated Short-time (AC-2 (I _{II}) Rated Short-time (AC-3 (I _{II}) Rated Making Capacity AC-3 acc. to IEC 60947-4- 1 Rated Making Capacity AC-3 acc. to IEC 60947-4- 1 Rated Short-time (AC-2 (I _{II}) Rated Short-time (AC-3 (I _{II}) Rated Operational Current Low (AC-3 (I _{II}) Rated Operational Current Temp, In Free Air, from a Cold State 15 in in 193 A (I _{II}) Rated Operational Current (AC-2 (I _{II}) Rated Operational Current (AC-3 (I _{II}) Rated Operational Current (AC-3 (I _{II}) Rated Operational Current (AC-3 (I _{II}) Rated Insulation Voltage (AC-3 (I _{II}) Rated Insulation Voltage (AC-3 (I _{II}) Rated Insulation Voltage (AC-3 (I _{II}) Rated Insu	Product Net Weight	1.55 kg
Nowher of Main Contacts NC Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Rated Operational Voltage Rated Operational Voltage Rated Operational Voltage Rated Operational Current Correntform Rated Operational Current Acc-1 ((n) Rated Operational Current Research Rated Operational Power Rated Research Rated Operational Current Rated Departs Research Rated Research Rat	Technical	
Number of Auxiliary Contacts NO Rated Operational Voltage Rated Operational Voltage Rated Operational Voltage Rated Operational Free-air Thermal Current (figh) Rated Operational Current AC-1 (le) Reset Operational Current AC-2 (le) Rated Operational Current AC-3 (le) Rated Operational Power AC-4 (le) Rated Operational Power AC-4 (le) Rated Operational Current AC-2 (le) Rated Insulation Voltage Ac-2 (le) Rated Insulation Voltage Ac-2 (le) Rated Insulation Voltage Ac-2 (le) Rated Insulatio		3
Contacts NO Number of Auxiliary Contracts NC Rated Operational Voltage Rated Frequency (f) Main Circuit 690 V Main Circuit 690 V Main Circuit 690 V Main Circuit 690 V Main Circuit 50 / 60 H Conventional Free-air Thermal Current (I _(h)) Rated Operational Current (690 V) 40 °C 160 A Rated Operational Current (690 V) 40 °C 160 A Rated Operational Current (890 V) 60 °C 145 A (890 V) 70 °C 130 A (890 V) 80 °C 165 A (890 V) 80 °C 1		0
Contacts NC		1
Rated Frequency (f)		2
Conventional Free-air Thermal Current (I _{III}) acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A C-1 (I _{II}) (690 V) 40 °C 160 A C-1 (I _{II}) (690 V) 60 °C 145 A (690 V) 60 °C 145 A (690 V) 60 °C 145 A (690 V) 60 °C 116 A (690 V) 75 kW (690 V	Rated Operational Voltage	Main Circuit 690 V
Rated Operational Current AC-1 (I _B)		Main Circuit 50 / 60 Hz
AC-1 (I _e) Rated Operational Current AC-3 (I _e) Rated Operational Power AC-3 (P _e) Rated Operational Power AC-3 (P _e) Rated Operational Power AC-3 (P _e) Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 Rated Making Capacity AC-3 acc. to IEC 60947-4-1 Short-Circuit Protective Brated Short-time Rated Short-time Short-time Rated Short-time Short-time Rated Short-time Shor		acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
AC-3 (le) (440 V) 50 °C 115 A (500 V) 50 °C 115 A (500 V) 50 °C 115 A (500 V) 50 °C 115 A (380 V) 400 V) 60 °C 15 A (380 V) 400 V) 60 °C 15 A (380 V) 400 V) 60 °C 15 A (380 V) 400 V) 50 °C 115 A (380 V) 400 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW (280 V) 55 kW (220 V 230 V 240 V) 30 kW (220 V 230 V 240 V 24		(690 V) 40 °C 160 (690 V) 60 °C 145 A (690 V) 70 °C 130
AC-3 (Pe) (A40 V) 75 kW (500 V) 75 kW (690 V) 75 kW (690 V) 75 kW (890 V) 75 kW (890 V) 75 kW (220 / 230 / 240 V) 30 kW Rated Breaking Capacity AC-3 acc. to IEC 60947-4- Rated Making Capacity AC-3 acc. to IEC 60947-4- Rated Making Capacity AC-3 acc. to IEC 60947-4- Short-Circuit Protective gG Type Fuses 250 A Bort-Circuit Protective pevices Rated Short-time 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 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 5 in 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s seph seph seph seph seph seph seph se		(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 65 A (380 / 400 V) 60 °C 116 A
Rated Breaking Capacity 8 x le AC-3		(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
AC-3 acc. to ĬEC 60947-4- 1 Short-Circuit Protective Devices Rated Short-time Withstand Current Low Voltage (I _{cw}) AC-3 mbient 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 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 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A Maximum Breaking Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 ∨ 2000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 ∨ 1000 A cos phi=0.45 (cos phi=0.45 (cos phi=0	AC-3 acc. to IEC 60947-4-	8 x le AC-3
Devices at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 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 1 s 1160 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 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 (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles	Rated Making Capacity AC-3 acc. to IEC 60947-4-	10 x le AC-3
Withstand Current Low Voltage (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 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 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 2000 A capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1000 A Maximum Electrical (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles p		gG Type Fuses 250 A
Capacity cos phi=0.45 (cos phi=0.35 for le > 100 Å) at 690 V 1000 Å Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour Rated Operational Current (110 V) 2 Poles in Series, 40 °C 145 Å DC-1 (I _e) (220 V) 3 Poles in Series, 40 °C 145 Å Rated Operational Current (110 V) 2 Poles in Series, 40 °C 145 Å DC-3 (I _e) (220 V) 3 Poles in Series, 40 °C 145 Å Rated Operational Current (110 V) 2 Poles in Series, 40 °C 145 Å DC-5 (I _e) (220 V) 3 Poles in Series, 40 °C 145 Å Rated Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V	Withstand Current Low	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
Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles pe		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
DC-1 (I _e) (220 V) 3 Poles in Series, 40 °C 145 A Rated Operational Current DC-3 (I _e) (220 V) 3 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A		(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
DC-3 (I _e) (220 V) 3 Poles in Series, 40 °C 145 A Rated Operational Current (110 V) 2 Poles in Series, 40 °C 145 A DC-5 (I _e) (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	•	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
DC-5 (I _e) (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		(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
		(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
		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 Voltage (U _{imp})	Main Circuit 8 kV
Mechanical Durability	5 millior
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)
Rated Control Circuit Voltage (U _c)	50 Hz 250 500 V 60 Hz 250 500 V DC Operation 250 500 V
Coil Consumption	Average Pull-in Value 50 Hz 260 V·A Average Pull-in Value 60 Hz 260 V·A Average Pull-in Value 60 Hz 260 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 205 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 205 V·A Pull-in at Max. Rated Control Circuit Voltage DC 230 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
General Use Rating UL/CSA Horsepower Rating UL/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
Environmental	(550 600 V AC) Three Phase 100 hp
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) seмко_se-70479м1
CQC Certificate	CQC2013010304604055
cUL Certificate Declaration of Conformity	20120925-E36588 2020980304001304
- CCC Declaration of Conformity	2CMT2018-005695
- CE EAC Certificate	1SFC101360D1101
Instructions and Manuals	1950-10100001101

1SFC100003M0201 2CMT2018-005695

Instructions and Manuals

RoHS Information

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SUVA Certificate 2CMT2019-005856

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	7320500540688	

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)	3708095

Categories

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

