

PRODUCT-DETAILS

## AFS400-30-12-69 AFS400-30-12-69



Extended Product Type	AFS400-30-12-69
Product ID	1SFL577081R6912
EAN	7320500540923
Catalog Description	AFS400-30-12-69
Long Description	The AFS400-30-12-69 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 Main Circuit Bars connections, controlling motors up to 200 kW / 400 V AC (AC-3) or 350 hp / 480 V UL and switching power circuits up to 600 A (AC-1) or 550 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

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Popular Downloads	

1SBC100208C02\_\_\_

Data Sheet, Technical Information

Dimensions	
Product Net Width	186 mm
Product Net Depth / Length	216 mm
Product Net Height	278 mm
Product Net Weight	10.6 kg

Т	echnical	

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Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 1000 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 600 A
Rated Operational Current	(1000 V) 40 °C 600 A

Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 600 A (1000 V) 55 °C 500 A (1000 V) 70 °C 400 A (690 V) 40 °C 600 (690 V) 55 °C 500 (690 V) 70 °C 400
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 400 A (440 V) 55 °C 400 A (500 V) 55 °C 400 A (690 V) 55 °C 350 A (1000 V) 55 °C 155 A (380 / 400 V) 55 °C 400 A (220 / 230 / 240 V) 55 °C 400
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 220 kW (440 V) 220 kW (500 V) 250 kW (690 V) 315 kW (1000 V) 220 kW (380 / 400 V) 200 kW (220 / 230 / 240 V) 110 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Rated Making Capacity	10 x le AC-3

AC-3 acc. to IEC 60947-4-1 gG Type Fuses 630 A Short-Circuit Protective Devices at 40  $^\circ\text{C}$  Ambient Temp, in Free Air, from a Cold State 10 s 4400 A at 40  $^\circ\text{C}$  Ambient Temp, in Free Air, from a Cold State 15 min 840 A Rated Short-time Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 4600 A Voltage (I<sub>cw</sub>) at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3100 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 4000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 3500 A Maximum Breaking Capacity (AC-1) 300 cycles per hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour Maximum Electrical Switching Frequency (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A Rated Operational Current DC-1  $(I_e)$ 

Rated Operational Current DC-3 (I <sub>e</sub> )	(110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A
Rated Operational Current DC-5 $(I_{e})$	(110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A
Rated Insulation Voltage $(U_i)$	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 $\theta \leq$ 70 °C)
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage DC 7.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1215 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1215 V·A Pull-in at Max. Rated Control Circuit Voltage DC 1150 V·A
Operate Time	Between Coil De-energization and NC Contact Closing 45 55 ms Between Coil De-energization and NO Contact Opening 48 58 ms Between Coil Energization and NC Contact Opening 45 115 ms Between Coil Energization and NO Contact Closing 50 120 ms
Connecting Capacity Main Circuit	Bar 47 mm² Rigid Al-Cable 240 mm² Rigid Cu-Cable 240 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 2.5 mm <sup>2</sup> Flexible 1x0.75 2.5 mm <sup>2</sup> Solid 2 x 1 4 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup>
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	Main Circuit: Bars

Connecting Capacity Main Circuit	Bar 47 mm² Rigid Al-Cable 240 mm² Rigid Cu-Cable 240 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 2.5 mm <sup>2</sup> Flexible 1x0.75 2.5 mm <sup>2</sup> Solid 2 x 1 4 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup>
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	Main Circuit: Bars
Technical UL/CSA	Main Circuit: Bars
	Main Circuit: Bars Main Circuit 600 V
Technical UL/CSA Maximum Operating	

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 (Document Number)

CB Certificate

## AFS400-30-12-69

CQC Certificate	CQC2007010304256683
cUL Certificate	20121207-E36588
Declaration of Conformity - CCC	2020980304001300
Declaration of Conformity - CE	2CMT2018-005695
EAC Certificate	1SFC101360D1101
Instructions and Manuals	1SFC380023-en
RoHS Information	2CMT2018-005695
SUVA Certificate	2CMT2019-005859

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	280 mm
Package Level 1 Depth / Length	375 mm
Package Level 1 Height	310 mm
Package Level 1 Gross Weight	12 kg
Package Level 1 EAN	7320500540923

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)	3709037

## Categories

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

