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PRODUCT-DETAILS

AFS400-30-12-68 AFS400-30-12-68



General Information	
Extended Product Type	AFS400-30-12-68
Product ID	1SFL577081R6812
EAN	7320500540930
Catalog Description	AFS400-30-12-68

Outding Description

The AFS400-30-12-68 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 (24-60 V 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.

Long Description

Ordering

 Minimum Order Quantity
 1 piece

 Customs Tariff Number
 85364900

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Popular Downloads Data Short Taskning		100010001400000		
Data Sheet, Technical nformation		1SBC100214C0202		
nstructions and Manuals CAD Dimensional		1SFC380023-en 2CDC001079B0201		
Drawing				
Dimensions				
Product Net Width		186 mm		
roduct Net Depth / ength		216 mm		
Product Net Height Product Net Weight		278 mm 10.6 kg		
Technical				
Number of Main Contacts		3		
Number of Main Contacts NC		0		
Number of Auxiliary Contacts NO		1		
Number of Auxiliary Contacts NC		2		
lumber of Poles		3P		
Rated Operational Voltage		Main Circuit 1000 V		
Rated Frequency (f)	200 to IFO 6004	Main Circuit 50 / 60 Hz		
Conventional Free-air ⁻ hermal Current (I _{th})	acc. to IEC 6094	-7-4-1, Open Contactors Θ = 40 °C 600 A		
Rated Operational Current AC-1 (I _e)		(1000 V) 40 °C 600 A (1000 V) 55 °C 500 A (1000 V) 70 °C 400 A (690 V) 40 °C 600 A (690 V) 55 °C 500 A (690 V) 70 °C 400 A		
Rated Operational Current AC-3 (I _e)		(415 V) 55 °C 400 A (440 V) 55 °C 400 A (500 V) 55 °C 400 A (690 V) 55 °C 400 A (1000 V) 55 °C 155 A (380 / 400 V) 55 °C 400 A (220 / 230 / 240 V) 55 °C 400 A		
Rated Operational Current DC-1 (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 Operational Current DC-3 (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 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 Operational Power AC-3 (P _e)		(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		8 x le AC-3		
Rated Making Capacity		10 x le AC-3		
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AC-3	70 T. W. F. W. C. C. A.	
Short-Circuit Protective Devices	gG Type Fuses 630 A	
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 4400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A 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 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3100 A	
Maximum Breaking Capacity	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	
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 _{imp})	Main Circuit 8 kV	
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour	
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)	
Rated Control Circuit Voltage (U _c)	DC Operation 24 60 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 900 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 900 V·A Pull-in at Max. Rated Control Circuit Voltage DC 900 V·A	
Power Loss	at Rated Operating Conditions per Pole 16 W	
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 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm²	
Connecting Capacity	Bar 47 mm² Rigid Al-Cable 2x240 mm² Rigid Cu-Cable 240 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	
Recommended Screw Driver	Main Circuit M10 Control Circuit M3.5 Control Circuit 5.5 Control Circuit Pozidriv 2	
Tightening Torque	Cable Lug 35 N·m Main Circuit 35 N·m	
Terminal Type	Main Circuit: Bars	
Product Name	Block Contactor	
Technical UL/CSA		
Maximum Operating Voltage UL/CSA	Main Circuit 600 V	
General Use Rating UL/CSA	(600 V AC) 550 A	
Horsepower Rating UL/CSA Full Load Amps Motor	(200 208 V AC) Three Phase 125 hp (220 240 V AC) Three Phase 150 hp (440 480 V AC) Three Phase 350 hp (550 600 V AC) Three Phase 360 A	
Use	(220 240 V AC) Three Phase 360 A	

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Environmental		
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/I Close to Contactor without Thermal O/I Close t	
Maximum Operating Altitude Permissible		Without Derating 3000 m
, and a composition		
Material Compliance		
Conflict Minerals Reporting Template (CMRT)		9AKK108467A5658
REACH Declaration		2CMT2021-006202
RoHS Information		2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and a	Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA		2CMT2023-006525
WEEE B2C / B2B		Business To Business
WEEE Category	5. Small Equipment (No Ex	ternal Dimension More Than 50 cm)
ABB EcoSolutions		
		Vac
ABB Site Meeting Group	Non-hazardous waste is sent to a landfill,	Yes where there is no alternative option available within 100km of a facility
Waste To Landfill Target Environmental Product Declaration - EPD		1SFC100105D0201
Improved Energy Efficiency for Customers	Product Efficiency - Product considered similar product on market	more energy-efficient compared to or older products from the same line
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource I	oops - Standard EN45555 - 63.1 %
Sustainable Material Content in Product (wt. %)		Recycled Metal - 37 %
Certificates and Declarations		
CB Certificate		SE-82316
CQC Certificate		CQC2007010304256683
Declaration of Conformity - CCC		2020980304001300
Declaration of Conformity - CE		2CMT2018-005695
Declaration of Conformity - UKCA		2CMT2020-006125
EAC Certificate		1SFC101360D1101
SUVA Certificate		2CMT2019-005859
<u>UL Certificate</u>		20121207-E36588
Container Information		
Package Level 1 Units		box 1 piece
Package Level 1 Width		280 mm
Package Level 1 Depth /		375 mm
Length		
Package Level 1 Height		310 mm
Package Level 1 Gross		12 kg
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Weight

<u>Package Level 1 EAN</u> 7320500540930

External Classifications and Standards	
Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Finland)	3709036

Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
1SFN010716R1010	CEL18-10 Auxiliary Contact Block	CEL18-10	1	piece
1SFN010716R1001	CEL18-01 Auxiliary Contact Block	CEL18-01	1	piece
1SFN010720R1011	CAL18-11 Auxiliary Contact Block	CAL18-11	1	piece
1SFN125703R1000	LT460-AL Terminal shroud	LT460-AL	1	piece
1SFN125701R1000	LT460-AC Terminal shroud	LT460-AC	1	piece
1SFN075710R1000	LX460 Terminal Extension	LX460	1	piece
1SFN075707R1000	LW460 Terminal Enlargement	LW460	1	piece
1SFN075703R1000	LY460 Connecting Strip	LY460	1	piece
1SFN126103R1000	LT750-AL Terminal shroud	LT750-AL	1	piece
1SFN126101R1000	LT750-AC Terminal shroud	LT750-AC	1	piece
1SFN076110R1000	LX750 Terminal Extension	LX750	1	piece
1SFN076107R1000	LW750 Terminal Enlargement	LW750	1	piece
1SFN076103R1000	LY750 Connecting Strip	LY750	1	piece

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors\ \rightarrow\ AFS\ Contactors\ \rightarrow\ AFS\ 400$



