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PRODUCT-DETAILS

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



General Information	
Extended Product Type	AFS400-30-12-69
Product ID	1SFL577081R6912
EAN	7320500540923
Catalog Description	AFS400-30-12-69
	The AEC 400 20 12 CO is a 2 male 1000 V/IEO at COO V/III and the state of the state

Long Description

AFS400-30-12-69

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

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Data Sheet, Technical Information	1SBC100214C0202
nstructions and Manuals	1SFC380023-en
CAD Dimensional	2CDC001079B0201
Drawing	
Dimensions	
Product Net Width	186 mm
Product Net Depth /	216 mm
ength Product Net Height	278 mm
Product Net Weight	10.6 kg
Fechnical	
Number of Main Contacts	3
Number of Main Contacts	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	2
Number of Poles	3P Main Circuit 1000 V
Rated Operational Voltage Rated Frequency (f)	Main Circuit 1000 V Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, 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 350 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 OC-1 (l _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 ($P_{\rm e}$)	(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
	(220 / 230 / 240 V) 110 KW

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AC-3			
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 hou		
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 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		
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 m Flexible with Insulated Ferrule 2x 0.75 2.5 m Flexible 1x0.75 2.5 m Solid 2 x 1 4 m Stranded 2 x 1 4 m		
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 IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP0		
Recommended Screw Driver	Main Circuit M10 Control Circuit M3.9 Control Circuit 5.9 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	(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 400 hp		
Full Load Amps Motor Use	(200 208 V AC) Three Phase 358.8 A (220 240 V AC) Three Phase 360 A		
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(440 ... 480 V AC) Three Phase 414 A (550 ... 600 V AC) Three Phase 382 A

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	
Maximum Operating Altitude Permissible	Close to Contactor for Storage -40 70 ° Without Derating 3000	
Material Compliance		-
Conflict Minerals Reporting Template CMRT)	9AKK108467A565	58
REACH Declaration	2CMT2021-00620	02
RoHS Information	2CMT2021-00627	77
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 201	9
Foxic Substances Control Act - TSCA	2CMT2023-00652	25
WEEE B2C / B2B	Business To Busines	
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm	<u>n)</u>
ABB EcoSolutions		-
ABB EcoSolutions	Ye	es
ABB Site Meeting Group Waste To Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative optio available within 100km of a facili	
Environmental Product Declaration - EPD	1SFC100105D020)1 —
Improved Energy Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared t similar product on market or older products from the same lir	<u>ne</u>
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 63.1	
Sustainable Material Content in Product (wt. %)	Recycled Metal - 37	<u>~</u>
Certificates and Declarations		_
CB Certificate	SE-8231	 6
CQC Certificate	CQC200701030425668	33
Declaration of Conformity - CCC	202098030400130	00
Declaration of Conformity - CE	2CMT2018-00569	95
Declaration of Conformity - UKCA	2CMT2020-00612	25
EAC Certificate	1SFC101360D110	01
SUVA Certificate	2CMT2019-00585	_
UL Certificate	20121207-E3658	<u>88</u>
		_
Container Information Package Level 1 Units	box 1 piec	_
Package Level 1 Onlis Package Level 1 Width	280 m	
Package Level 1 Width Package Level 1 Depth / Length	375 m	
Package Level 1 Height	310 m	m
Package Level 1 Gross	12 k	 -
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Weight

<u>Package Level 1 EAN</u> 7320500540923

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)	4755 >> Contactors
E-Number (Finland)	3709037

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

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



