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PRODUCT-DETAILS

## AF580-30-11-68 AF580-30-11 24-60V DC Contactor



General Information	
Extended Product Type	AF580-30-11-68
Product ID	1SFL617001R6811
EAN	7320500220368
Catalog Description	AF580-30-11 24-60V DC Contactor
Long Description	The AF580-30-11-68 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 315 kW / 400 V AC (AC-3) or 500 hp / 480 V UL and switching power circuits up to 800 A (AC-1) or 750 A UL general use. 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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Popular Downloads

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Data Sheet, Technical Information	1SBC100192C0206		
Instructions and Manuals	1SFC380023-en		
CAD Dimensional	2CDC001079B0201		
Drawing			
Dimension Diagram	53540919-60		
Dimensions			
Product Net Width	210 mm		
Product Net Depth / Length	242 mm		
Product Net Height	283 mm		
Product Net Weight	13.6 kg		
Number of Main Contacts NO	3		
Number of Main Contacts NC	0		
Number of Auxiliary Contacts NO	1		
Number of Auxiliary Contacts NC			
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 Θ = 40 °C 800 A		
Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 800 A (1000 V) 55 °C 700 A (1000 V) 70 °C 580 A (690 V) 40 °C 800 A (690 V) 55 °C 700 A (690 V) 70 °C 580 A		
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 580 A (440 V) 55 °C 580 A (500 V) 55 °C 580 A (690 V) 55 °C 500 A (1000 V) 55 °C 250 A (380 / 400 V) 55 °C 580 A (220 / 230 / 240 V) 55 °C 580 A		
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 355 kW (440 V) 355 kW (500 V) 400 kW (690 V) 500 kW (1000 V) 355 kW (380 / 400 V) 315 kW (220 / 230 / 240 V) 160 kW		
Rated Breaking Capacity AC-3	8 x le AC-3		
Rated Making Capacity AC-3	10 x le AC-3		
Short-Circuit Protective Devices	gG Type Fuses 1000 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 6400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 7000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A		
Maximum Breaking Capacity	cos phi= $0.45$ (cos phi= $0.35$ for le > $100$ A) at $440$ V $6000$ A cos phi= $0.45$ (cos phi= $0.35$ for le > $100$ A) at $690$ V $5000$ A		
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hou (AC-2 / AC-4) 60 cycles per hou (AC-3) 300 cycles per hou		
Rated Operational Current DC-1 (I <sub>e</sub> )	(110 V) 1-Pole, 40 °C 800 A (110 V) 2 Poles in Series, 40 °C 800 A		
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(220 V) 3 Poles in Series, 40 °C 800 A (600 V) 3 Poles in Series, 40 °C 800 A
(850 V) 3 Poles in Series, 40 °C 800 A
(110 V) 1-Pole, 40 °C 800 A
(110 V) 2 Poles in Series, 40 °C 800 A (220 V) 3 Poles in Series, 40 °C 800 A
(600 V) 3 Poles in Series, 40 °C 800 A
(110 V) 1-Pole, 40 °C 800 A
(110 V) 2 Poles in Series, 40 °C 800 A (220 V) 3 Poles in Series, 40 °C 800 A
(600 V) 3 Poles in Series, 40 °C 800 A
acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
acc. to UL/CSA 600 V
Main Circuit 8 kV
3 million
300 cycles per hour
300 cycles per flour
(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C)
DC Operation 24 60 V
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 5.5 V·A
Pull-in at Max. Rated Control Circuit Voltage 50 Hz 780 V-A
Pull-in at Max. Rated Control Circuit Voltage 60 Hz 780 V·A Pull-in at Max. Rated Control Circuit Voltage DC 785 V·A
Between Coil De-energization and NC Contact Closing 50 70 ms
Between Coil De-energization and NO Contact Opening 53 73 ms
Between Coil Energization and NC Contact Opening 45 115 ms Between Coil Energization and NO Contact Closing 50 120 ms
Bar 52 mm²
Rigid Al-Cable 3x185 mm²
Rigid Cu-Cable 300 mm² Flexible with Ferrule 2x 0.75 2.5 mm²
Flexible with Insulated Ferrule 2x 0.75 2.5 mm <sup>2</sup>
Flexible 2x0.75 2.5 mm <sup>2</sup>
Solid 2 x 1 4 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup>
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Main Circuit: Bars
Main Circuit 1000 V
Main Circuit 1000 V
Main Circuit 1000 V (600 V AC) 750 A
(600 V AC) 750 A
(600 V AC) 750 A (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp
(600 V AC) 750 A (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp (220 240 V AC) Three Phase 250 hp
(600 V AC) 750 A (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp
(600 V AC) 750 A  (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp (220 240 V AC) Three Phase 250 hp (440 480 V AC) Three Phase 500 hp
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(600 V AC) 750 A  (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp (220 240 V AC) Three Phase 250 hp (440 480 V AC) Three Phase 500 hp (550 600 V AC) Three Phase 600 hp (550 600 V AC) Three Phase 600 hp  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 Without Derating 3000 m
(600 V AC) 750 A  (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp (220 240 V AC) Three Phase 250 hp (440 480 V AC) Three Phase 500 hp (550 600 V AC) Three Phase 600 hp (550 600 V AC) Three Phase 600 hp  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  Without Derating 3000 m  Shock Direction: A 5 g Shock Direction: B1 5 g
(600 V AC) 750 A  (200 V AC) Three Phase 200 hp (208 V AC) Three Phase 200 hp (220 240 V AC) Three Phase 250 hp (440 480 V AC) Three Phase 500 hp (550 600 V AC) Three Phase 600 hp  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  Without Derating 3000 m  Shock Direction: A 5 g

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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 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 External Dimension More Than 50 cm)

Certificates and Declarations	
ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SE-82863
CCS Certificate	GB14T00030
CQC Certificate	CQC2007010304256684 CQC2012010304540080
Declaration of Conformity - CCC	2020980304001301 2020980304001045
Declaration of Conformity - CE	2CMT2019-005796
Declaration of Conformity - UKCA	2CMT2020-006118
DNV Certificate	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
GL Certificate	GL_42988-02HH
LOVAG Certificate	SE-0146175
LR Certificate	16-20064
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
TÜV Certificate	MHM-EST-7.70017788e
UL Certificate	UL_20111101-E36588
UL Listing Card	UL E36588

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	15 kg
Package Level 1 EAN	7320500220368

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

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ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Norway)	4115294
E-Number (Sweden)	3228352

Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
1SFN170801R1001	RU19/120 LVRT-Module	RU19/120	1	piece
1SFN170801R1002	RU19/240 LVRT-Module	RU19/240	1	piece

## Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF580$ 

