

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	AE580-30-11 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

	Data Sheet, Technical Information
ons and Manuals 1SFC380023-e	Instructions and Manuals
nensional 2CDC001079B020	CAD Dimensional Drawing
on Diagram 53540919-6	Dimension Diagram
nsions	Dimensions
Net Width 210 mr	Product Net Width
Net Depth / 242 mr	Product Net Depth / Length
Net Height 283 mr	Product Net Height
Net Weight 13.6 k	Product Net Weight
ical	Technical
of Main Contacts	Number of Main Contacts NO
of Main Contacts	Number of Main Contacts NC
	Number of Auxiliary Contacts NO
·	Number of Auxiliary Contacts NC
perational Voltage Main Circuit 1000	Rated Operational Voltage
equency (f) Main Circuit 50 / 60 H	Rated Frequency (f)
· •	Conventional Free-air Thermal Current (I _{th})
	Rated Operational Current AC-1 (I _e)
perational Current (415 V) 55 °C 580 A	Rated Operational Current AC-3 (I _e)
perational Power (415 V) 355 kV	Rated Operational Power AC-3 (P _e)
reaking Capacity 8 x le AC-	Rated Breaking Capacity AC-3
aking Capacity 10 x le AC-	Rated Making Capacity

Short-Circuit Protective Devices	gG Type Fuses 1000 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	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 hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour
Rated Operational Current DC-1 (I _e)	(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 (850 V) 3 Poles in Series, 40 °C 800 A
Rated Operational Current DC-3 (I _e)	(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
Rated Operational Current DC-5 (I _e)	(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
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
Mechanical Durability	3 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 $(\mathrm{U_c})$	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 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
Operate Time	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
Connecting Capacity Main Circuit	Bar 52 mm² Rigid Al-Cable 3x185 mm² Rigid Cu-Cable 300 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 2.5 mm ² Flexible 2x0.75 2.5 mm ² Solid 2 x 1 4 mm ² Stranded 2 x 1 4 mm ²
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

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Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(600 V AC) 750 A
Horsepower Rating UL/CSA	(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

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
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g

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	2CMT2020-006118

- UKCA	
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

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
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

UL Certificate

UL Listing Card

UL_20111101-E36588

UL_E36588

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Categories

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