

AF580-30-11-70



AF580-30-11 100-250V 50/60Hz / 100-250V DC Contactor



General Information

Extended Product Type	AF580-30-11-70
Product ID	1SFL617001R7011
EAN	7320500217696
Catalog Description	AF580-30-11 100-250V 50/60Hz / 100-250V DC Contactor
Long Description	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202
Instructions and Manuals	1SFC380023-en
Dimension Diagram	53540919-60

Dimensions

Product Net Width	210.0 mm
Product Net Depth / Length	242.0 mm
Product Net Height	283.0 mm
Product Net Weight	15.000 kg

Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 50/60 Hz
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 800 A
Rated Operational Current AC-1 (I_e)	(690 V) 55 °C 700 A (690 V) 40 °C 800 A

	(1000 V) 40 °C 800 A (1000 V) 55 °C 700 A (690 V) 70 °C 580 A (1000 V) 70 °C 580 A
Rated Operational Current AC-3 (I_e)	(1000 V) 55 °C 250 A (415 V) 55 °C 580 A (220 / 230 / 240 V) 55 °C 580 A (690 V) 55 °C 500 A (440 V) 55 °C 580 A (380 / 400 V) 55 °C 580 A (500 V) 55 °C 580 A
Rated Operational Power AC-3 (P_e)	(220 / 230 / 240 V) 160 kW (380 / 400 V) 315 kW (415 V) 355 kW (440 V) 355 kW (500 V) 400 kW (690 V) 500 kW (1000 V) 355 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x I_e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x I_e AC-3
Short-Circuit Protective Devices	gG Type Fuses 1000 A
Rated Short-time Withstand Current (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 30 s 4500 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 1 min 3500 A
Maximum Breaking Capacity	$\cos \phi=0.45$ ($\cos \phi=0.35$ for $I_e > 100$ A) at 440 V 6000 A $\cos \phi=0.45$ ($\cos \phi=0.35$ for $I_e > 100$ A) at 690 V 5000 A
Maximum Electrical Switching Frequency	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 60 cycles per hour
Rated Operational Current DC-1 (I_e)	(850 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
Rated Operational Current DC-3 (I_e)	(850 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
Rated Operational Current DC-5 (I_e)	(850 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
Rated Insulation Voltage (U_i)	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 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 U_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70$ °C) °C
Rated Control Circuit Voltage (U_c)	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
Coil Consumption	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 880 V·A Holding at Max. Rated Control Circuit Voltage DC 5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 880 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 880 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A
Operate Time	Between Coil Energization and NO Contact Closing 50 ... 120 ms Between Coil De-energization and NO Contact Opening 53 ... 73 ms Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms

Connecting Capacity Main Circuit	Rigid Al-Cable 300 mm ² Bar 52 mm Rigid Cu-Cable 300 mm ²
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm ² Stranded 1 x 1 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 2 x 0.75 ... 2.5 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

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	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: B1 5 g
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 750 A
Horsepower Rating UL/CSA	(208 V AC) Three Phase 200 Hp (440 ... 480 V AC) Three Phase 500 Hp (550 ... 600 V AC) Three Phase 600 Hp (220 ... 240 V AC) Three Phase 250 Hp (200 V AC) Three Phase 200 Hp

Certificates and Declarations (Document Number)

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SE-82863
CCC Certificate	CQC_2007010304256684
CCS Certificate	GB14T00030
cUL Certificate	UL_20111101-E36588
Declaration of Conformity - CE	1SFA1-65
DNV Certificate	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	EAC_RUC-SE.ME77.B.01005
Environmental Information	1SFC101005D0201
GL Certificate	GL_42988-02HH
Instructions and Manuals	1SFC380023-en
LOVAG Certificate	FI107
LR Certificate	16-20064
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978

RoHS Information	1SFC101055D0202
UL Listing Card	UL_E36588

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	290 mm
Package Level 1 Depth / Length	270 mm
Package Level 1 Height	350 mm
Package Level 1 Gross Weight	15 kg
Package Level 1 EAN	7320500217696

Classifications

Object Classification Code	Q
E-nummer	3228356
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
UNSPSC	39121529

Where Used (as a spare part for "Products")

Identifier	Description	Quantity	Unit Of Measure
FC-0460-0600	No Description Available	1	piece

Product specific part data

Product	Category	Drive Part Category
FC-0460-0600	MoCon	Switches, Relays, Contactors

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

Drives → Low voltage AC drives → Legacy AC drives → MoCon

