AF1250-30-11-70

AF1250-30-11 100-250V 50/60Hz / 100-250V DC Contactor

General Information

Extended Product Type	AF1250-30-11-70
Product ID	1SFL647001R7011
EAN	7320500355091
Catalog Description	AF1250-30-11 100-250V 50/60Hz / 100-250V DC Contactor
Long Description	A 3-phase Contactor suitable for various applications such as, 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

Dimensions

Product Net Width	210.0 mm
Product Net Depth / Length	242.0 mm
Product Net Height	344.0 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 1050 A
Rated Operational Current AC-1 (I_e)	(690 V) 55 °C 1040 A (690 V) 40 °C 1260 A (1000 V) 40 °C 1260 A

	(1000 V) 55 °C 1040 A (690 V) 70 °C 875 A (1000 V) 70 °C 875 A
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x Ie AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x Ie AC-3
Rated Short-time Withstand Current (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 8000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 7200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 5200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 4000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 7500 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 7000 A
Maximum Electrical Switching Frequency	AC-1 300 cycles per hour
Rated Operational Current DC-1 (I_e)	(850 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-3 (I_e)	(850 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-5 (I_e)	(850 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 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	0.5 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) °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 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 50 mm
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm² Stranded 1 x 1 .... 4 mm² Flexible 2x0.75 ... 2.5 mm² Flexible with Ferrule 2 x 0.75 ... 2.5 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
Connecting terminals (delivered in open position) Main poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp
Terminal Type	Main Circuit: Bars

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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: C1 5 g Shock Direction: B2 5 g Shock Direction: B1 5 g
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 1210 A

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Certificates and Declarations (Document Number)

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SE-82865
CCC Certificate	CQC_2006010304213519
CCS Certificate	GB14T00030
cUL Certificate	UL_20130930-E73397
Declaration of Conformity - CE	1SFA1-88
DNV GL Certificate	TAE00001W1
EAC Certificate	EAC_RUC-SE.ME77.B.01005
Environmental Information	1SFC101037D0201
Instructions and Manuals	1SFC380023-en
LR Certificate	16-20064
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
RoHS Information	1SFC101055D0202
UL Listing Card	UL_E73397

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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	7320500355091

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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
UNSPSC	39121529

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Categories

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