



PRODUCT-DETAILS

AF1250-30-11-69
AF1250-30-11 48-130V 50/60Hz / 48-130V DC
Contactor



General Information	
Extended Product Type	AF1250-30-11-69
Product ID	1SFL647001R6911
EAN	7320500355077
Catalog Description	AF1250-30-11 48-130V 50/60Hz / 48-130V DC Contactor
Long Description	The AF1250-30-11-69 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, switching power circuits up to 1260 A (AC-1) or 1210 A UL general use. 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

Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC380023-en
CAD Dimensional Drawing	2CDC001079B0201

Dimensions	
Product Net Width	210 mm
Product Net Depth / Length	242 mm
Product Net Height	344 mm
Product Net Weight	14.6 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 $\Theta = 40\text{ }^{\circ}\text{C}$ 1050 A
Rated Operational Current AC-1 (I _e)	(1000 V) 40 °C 1260 A (1000 V) 55 °C 1040 A (1000 V) 70 °C 875 A (690 V) 40 °C 1260 A (690 V) 55 °C 1040 A (690 V) 70 °C 875 A
Rated Breaking Capacity AC-3	8 x I _e AC-3
Rated Making Capacity AC-3	10 x I _e AC-3
Rated Short-time Withstand Current Low Voltage (I _{cw})	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 15 min 1500 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 1 s 8000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 5200 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 7500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 7000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour
Rated Operational Current DC-1 (I _e)	(220 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (850 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-3 (I _e)	(220 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (850 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-5 (I _e)	(220 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (850 V) 3 Poles in Series, 40 °C 1250 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	0.5 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 θ ≤ 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 5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1100 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1100 V·A Pull-in at Max. Rated Control Circuit Voltage DC 1020 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 ²
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 1 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
Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp
Terminal Type	Main Circuit: Bars

Technical UL/CSA

Horsepower Rating NEMA	(230 V AC) Three Phase 300 Hp (460 V AC) Three Phase 600 Hp (575 V AC) Three Phase 600 Hp
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(1000 V AC) 1210 A

Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U _c) -25 ... 50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U _c) -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-82865
CCS Certificate		GB14T00030
CQC Certificate		CQC2006010304213519 CQC2012010304540079
Declaration of Conformity - CCC		2020980304001302 2020980304001044
Declaration of Conformity - CE		2CMT2019-005796
Declaration of Conformity - UKCA		2CMT2020-006118
DNV GL Certificate		TAE00001W1
EAC Certificate		9AKK107046A8618
LR Certificate		16-20064
PRS Certificate		TE_2092_880423_16
RINA Certificate		ELE060313XG_002
RMRS Certificate		9AKK107045A6978
UL Certificate		UL_20130930-E73397
UL Listing Card		UL_E73397

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		16 kg
Package Level 1 EAN		7320500355077

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 >> Iec Contactors
E-Number (Norway)	4115381
E-Number (Sweden)	4115381

Accessories				
Identifier	Description	Type	Quantity	Unit Of Measure
1SFN076407R1000	LW1250 Terminal Enlargement	LW1250	1	piece
1SFN165503R9215	AF1250 Cover Replacement Part	Spare Part Cover AF1250	1	piece
1SFN165503R9245	AF1250 Base Replacement Part	Spare Part Bottom AF1250	1	piece
1SFN166403R1000	ZL1250 Main Contact Kit	ZL1250	1	piece
1SFN165503R9216	AF1350 Cover Replacement Part	Spare Part Cover AF1350	1	piece
1SFN165503R9250	AF1350 Base Replacement Part	Spare Part Bottom AF1350	1	piece
1SFN166503R1000	ZL1350 Main Contact Kit	ZL1350	1	piece
1SFN166503R1001	ZL1350-1 Main Contact Kit	ZL1350-1	1	piece
1SFN165503R9246	AF1350/1650 Base Replacement Part	Spare Part Bottom AF1350/AF1650	1	piece
1SFN165503R9218	AF1650 Cover Replacement Part	Spare Part Cover AF1650	1	piece
1SFN165503R9247	AF1650 Base Replacement Part	Spare Part Bottom AF1650	1	piece
1SFN165503R9251	AF1650 Base Replacement Part	Spare Part Bottom AF1650	1	piece
1SFN166510R1001	ZW1650 Arc Shute	ZW1650	1	piece
1SFN166521R1070	ZP1650 Circuit Board	ZP1650	1	piece
1SFN166703R1000	ZL1650 Main Contact Kit	ZL1650	1	piece
1SFN166703R1001	ZL1650-1 Main Contact Kit	ZL1650-1	1	piece
1SFN156570R7026	ZAF1650 100-250V AC/DC Operating Coil	ZAF1650	1	piece
1SFN165503R9219	AF1650T Cover Replacement Part	Spare Part Cover AF1650T	1	piece
1SFN165503R9126	T-Delay board Replacement Kit	T-Delay board	1	piece
1SFN165503R9223	AF2650T Cover Replacement Part	Spare Part Cover AF2650T	1	piece
1SFN165503R9211	AF400 Cover Replacement Part	Spare Part Cover AF400	1	piece
1SFN165703R1000	ZL400 Main Contact Kit	ZL400	1	piece

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF1250

