

PRODUCT-DETAILS

## AF1250-30-11-71 AF1250-30-11 250-500V 50/60Hz / 250-500V DC Contactor



General Information		
Extended Product Type	AF1250-30-11-71	
Product ID	1SFL647001R7111	
EAN	7320500355114	
Catalog Description	AF1250-30-11 250-500V 50/60Hz / 250-500V DC Contactor	
Long Description	The AF1250-30-11-71 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 (250-500 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	
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1SFC380023-en
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	
Number of Main Contacts NC	
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	· · · · · · · · · · · · · · · · · · ·
Rated Operational Voltage	Main Circuit 1000 \
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 $\Theta$ = 40 °C 1050 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(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 le AC-3
Rated Making Capacity AC-3	10 x le AC-3
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 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 le > 100 A) at 440 V 7500 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 7000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hou
Rated Operational Current DC-1 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 \ acc. to UL/CSA 600 \
Rated Impulse Withstand	Main Circuit 8 kV
Voltage (U <sub>imp</sub> )	

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Table Convert Circuit Voltage (U, J)       60 Hz 250 - 500 0 C Operation 250 - 500 0 C Operate Time         Description       Holding at Max. Rated Control Circuit Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Circuit Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Circuit Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Circuit Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Circuit Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Control Voltage 50 Hz 95 V/ Pull-in at Max. Rated Control Hz 95 V/ Pull-in at Max. Rate	Maximum Mechanical Switching Frequency	300 cycles per hou
Voltage (U_) Consumption Holding at Max. Retad Control Circuit Voltage 50 Hz 12 V- Holding at Max. Retad Control Voltage 50 Hz 12 V- Holding at Max. Retad Control Circuit Voltage 50 Hz 12 V- Holding at Max. Retad Control Field With Retade 20 Ja Halde 2	Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C
Del Consumption De Coperation 260 - 500 - 201 -	Rated Control Circuit Voltage (U_)	50 Hz 250 500 \ 60 Hz 250 500 \
Holding at Max. Rated Control Circuit Voltage 50 17: 5 V Pull-in at Max. Rated Control Circuit Particitation V Pull-in At Max. Rated Co		DC Operation 250 500 V
Between Coil De-energization and NC Contact Opening 53	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 7.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 985 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 985 V·A Pull-in at Max. Rated Control Circuit Voltage DC 910 V·A
Circuit Contexting Capacity Flexible with Ferrule 2x 0.75 2.5 mm Setanded 2x 1 4 mm Sold 2x 1 4 mm Sold 2x 1 4 mm Stranded 2x 1 1 mm Stra	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
Auxiliary Circuit Flexible with Insulated Ferule 2x 0.75 2.5 mm Solid 2x 1 4 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Terminals IP2 acc. to IEC 60529, IEC 60947-1, EN 60529 Goil Connecting Terminals delivered in open sostion) Main Poles Terchnical UL/CSA -torsepower Rating NEMA (460 V AC) Three Phase 600 Hr (575 V AC) Three Phase 600 Hr (100 V AC) 1210 <i>F</i> JUCSA Environmental Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 °C (Close to Contactor of Storage -40 70 °C (Close to Contactor for Storage -40 70 °C (Close to Contact	Connecting Capacity Main Circuit	Bar 50 mm²
acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00         Connecting Terminals         delivered in open         sosition) Main Poles         Terminal Type         Main Circuit: Bare         Technical UL/CSA         Horsepower Rating NEMA         (230 V AC) Three Phase 600 Hg (460 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg         Main Circuit: Bare         Main Circuit: Bare         Main Circuit: Bare         Vaximum Operating         Main Circuit: 1000 V         Seneral UJes Rating         JLCSA         Environmental         Ambient Air Temperature         Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C Shock Direction: A 5 ( Shock Direction: C 5 § Shock Di	Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 2.5 mm <sup>2</sup> Flexible 1x0.75 2.5 mm <sup>2</sup> Solid 2 x 1 4 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup>
delivered in open bosition) Main Poles Terminal Type Main Circuit: Bare Technical UL/CSA Technical UL/CSA Torsepower Rating NEMA (230 V AC) Three Phase 300 Hg (460 V AC) Three Phase 300 Hg (460 V AC) Three Phase 300 Hg (575 V AC) Three Phase 300 Hg (1000 V AC) 1210 J JL/CSA Technical UL/CSA Close Rating (1000 V AC) 1210 J JL/CSA Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 °C Close to Contactor for Storage -40 70 °C Shock Direction: B1 5 o IEC 60068-2-27 Shock Direction: C1 5 6 Shock Direction: C1 5 6 Shock Direction: C2 5 6 Material Compliance Darilict Minerals Sporting Template CMRT)	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
Technical UL/CSA         torsepower Rating NEMA       (230 V AC) Three Phase 300 Hg (460 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg (1000 V AC) Three Phase 600 Hg (1000 V AC) 1210 A         Ganeral Use Rating       (1000 V AC) 1210 A         JL/CSA       (1000 V AC) 1210 A         Environmental       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) -25 50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor fitted with Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C Shock Direction: B1 5 (Shock Direction: C1 5 (Shock Directi	Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp
Technical UL/CSA         torsepower Rating NEMA       (230 V AC) Three Phase 300 Hg (460 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg (575 V AC) Three Phase 600 Hg (1000 V AC) Three Phase 600 Hg (1000 V AC) 1210 A         Ganeral Use Rating       (1000 V AC) 1210 A         JL/CSA       (1000 V AC) 1210 A         Environmental       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) -25 50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor fitted with Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 70 °C Shock Direction: B1 5 (Shock Direction: C1 5 (Shock Directi	Terminal Type	Main Circuit: Bars
Maximum Operating Voltage UL/CSA General Use Rating JL/CSA 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) -25 50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -25 50 °C Close to Contactor of Storage -40 70 °C Close to Contactor for Storage -40 70 °C Shock Direction: B1 5 § Shock Direction: B1 5 § Shock Direction: Cl 5 § Shock Direct	Horsepower Rating NEMA	(230 V AC) Three Phase 300 Hp (460 V AC) Three Phase 600 Hp (575 V AC) Three Phase 600 Hp
JL/CSA         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         Vaximum Operating         Attitude Permissible         Resistance to Shock acc.         o IEC 60068-2-27         Shock Direction: B1 5 0         Shock Direction: C1 5 0         Shock Direction: C1 5 0         Shock Direction: C2 5 0         Material Compliance         Conflict Minerals         Reporting Template         CMRT)	Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
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 Waximum Operating Altitude Permissible Resistance to Shock acc. o IEC 60068-2-27 Shock Direction: B1 5 c Shock Direction: C1 5 c Shock Direction: C2 5 c Material Compliance Conflict Minerals Reporting Template CMRT)	General Use Rating UL/CSA	(1000 V AC) 1210 A
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 Waximum Operating Altitude Permissible Resistance to Shock acc. o IEC 60068-2-27 Shock Direction: B1 5 c Shock Direction: C1 5 c Shock Direction: C2 5 c Material Compliance Conflict Minerals Reporting Template CMRT)		
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 Resistance to Shock acc. o IEC 60068-2-27 Shock Direction: B1 5 c Shock Direction: C1 5 c Shock Direction: C2 5 c Material Compliance	Environmental	
Altitude Permissible Resistance to Shock acc. o IEC 60068-2-27 Shock Direction: B1 5 0 Shock Direction: B2 5 0 Shock Direction: C1 5 0 Shock Direction: C2 5 0 Material Compliance Conflict Minerals Reporting Template CMRT)	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
o IEC 60068-2-27 Shock Direction: B1 5 0 Shock Direction: B2 5 0 Shock Direction: C1 5 0 Shock Direction: C2 5 0 Material Compliance Conflict Minerals Reporting Template CMRT)	Maximum Operating Altitude Permissible	Without Derating 3000 m
Conflict Minerals 9AKK108467A5658 Reporting Template (CMRT)	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
Conflict Minerals 9AKK108467A5658 Reporting Template (CMRT)		
Reporting Template CMRT)	Material Compliance	
	Conflict Minerals Reporting Template	9AKK108467A5658
	(CMRT)	

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**RoHS** Information

RoHS Status

Subject to change without notice

2CMT2021-006277

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	7320500355114	

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 (Finland)	3707160

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E-Number (Norway)	4115383
E-Number (Sweden)	4115383

## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  ABcontactors  $\rightarrow$  AF Contactors  $\rightarrow$  AF1250

