PRODUCT-DETAILS

AF1250-30-22-69

AF1250-30-22-69 48-130V 50/60Hz / 48-130V DC Contactor



General Information

Extended Product Type	AF1250-30-22-69
Product ID	1SFL647001R6922
EAN	7320500355084
Catalog Description	AF1250-30-22-69 48-130V 50/60Hz / 48-130V DC Contactor
Long Description	The AF1250-30-22-69 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

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EPLAN Data	9AAC129651_EPLAN
Data Sheet, Technical Information	1SBC100214C0202
Data Sheet, Technical Information (Part 2)	1SAC200017M0002
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	2
Number of Auxiliary Contacts NC	2
Number of Poles	3P
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 Θ = 40 °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 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 Breaking Capacity AC-3	8 x Ie AC-3
Rated Making Capacity AC-3	10 x Ie 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 1500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 5200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 8000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 7200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4000 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
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 8 kV
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour

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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)
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
Power Loss	at Rated Operating Conditions per Pole 80 W
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 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Flexible 2x0.75 ... 2.5 mm² Solid 1 x 1 ... 4 mm² Solid 2 x 1 ... 4 mm² Stranded 2 x 1 .... 4 mm²
Connecting Capacity	Bar 50 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
Recommended Screw Driver	Main Circuit M12 Control Circuit Pozidriv 2 Control Circuit M3.5
Tightening Torque	Cable Lug 45 N·m Main Circuit 45 N·m
Terminal Type	Main Circuit: Bars
Suitable for Product Class	Block ContactorsBlock Contactors
Product Name	Block Contactor

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 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 Operation -40 ... 70 °C 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

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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	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)

ABB EcoSolutions

End Of Life Disassembling Instructions	1SFC100112M0004
Environmental Product Declaration - EPD	1SFC100109D0201

Certificates and Declarations

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SE-82863
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	7320500355084

External Classifications and Standards

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching

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ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> Iec Contactors

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	ZP1650-70 Circuit Board	ZP1650-70	1	piece
1SFN166703R1000	ZL1650 Main Contact Kit	ZL1650	1	piece
1SFN166703R1001	ZL1650-1 Main Contact Kit	ZL1650-1	1	piece
1SFN156570R7026	ZAF1650-70 100-250V AC/DC Operating Coil	ZAF1650-70	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

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



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