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PRODUCT-DETAILS

AF38-22-00-12

AF38-22-00-12 48-130V50/60HZ-DC Contactor



General Information

Extended Product Type	AF38-22-00-1	
Product ID	1SBL297501R1200	
EAN	3471523116528	
Catalog Description	AF38-22-00-12 48-130V50/60H7-DC Contactor	

Long Description

The AF38-22-00-12 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 11 kW / 400 V AC (AC-3) and switching power circuits up to 55 A (AC-1) or 55 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

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1SBC101027M6801	Popular Downloads Instructions and
	Manuals
2CDC001079B020	CAD Dimensional Drawing
	· ,
	Dimensions
45 mr	Product Net Width
101 mr	Product Net Depth / Length
86 mr	Product Net Height
0.36 kg	Product Net Weight
	Technical
	Number of Main Contacts NO
	Number of Main Contacts NC
	Number of Auxiliary Contacts NO
	Number of Auxiliary Contacts NC
IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-1, UL 60947-4-1, CAN/CS/ C22.2 No.60947-1, CAN/CSA C22.2 No.60947-4-	Standards
Main Circuit 690	Rated Operational Voltage
Control Circuit 50 / 60 H Main Circuit 50 / 60 H	Rated Frequency (f)
acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 55	Conventional Free-air Thermal Current (I _{th})
(690 V) 40 °C 55 . (690 V) 60 °C 45 . (690 V) 70 °C 37 .	Rated Operational Current AC-1 (I _e)
(415 V) 60 °C 21.2 (440 V) 60 °C 20 (500 V) 60 °C 17.6 (690 V) 60 °C 10.5 (380 / 400 V) 60 °C 22	Rated Operational Current AC-3 (I _e)
(220 / 230 / 240 V) 60 °C 23.2 (400 V) 11 k) (415 V) 11 k) (440 V) 11 k) (500 V) 11 k) (690 V) 9 k) (220 / 230 / 240 V) 5.5 k)	Rated Operational Power AC-3 (P _e)
at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 300 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 55 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 450 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225	Rated Short-time Withstand Current Low Voltage (I _{cw})
(AC-1) 600 cycles per hou	Maximum Electrical Switching Frequency
acc. to IEC 60947-4-1 690 acc. to UL/CSA 600	Rated Insulation Voltage (U _i)
6 k	Rated Impulse

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Switching Frequency	
Rated Control Circuit Voltage (U _c)	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
Operate Time	Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NO Contact Closing 40 95 ms
Mounting on DIN Rail	TH35-15 (35 \times 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 \times 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 1.5 16 mm² Flexible with Insulated Ferrule 1/2x 1.5 16 mm² Rigid Solid 1/2x 1.5 4 mm² Rigid Stranded 1/2x 1.5 16 mm²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid Solid 1/2x 1 2.5 mm ² Rigid Stranded 1/2x 1 2.5 mm ²
Wire Stripping Length	Control Circuit 10 mm Main Circuit 12 mm
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 IP20
Terminal Type	Screw Terminals

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 55 A
Connecting Capacity Main Circuit UL/CSA	Rigid Solid 1/2x 16-10 AWG Rigid Stranded 1/2x 16-6 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Control Circuit 11 in·lb Main Circuit 22 in·lb

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc.	Closed, Shock Direction: A 30 g
to IEC 60068-2-27	Closed, Shock Direction: B1 25 g
	Closed, Shock Direction: B2 15 g
	Closed, Shock Direction: C1 25 g
	Closed, Shock Direction: C2 25 g
	Open, Shock Direction: A 25 g
	Open, Shock Direction: B1 5 g
	Open, Shock Direction: B2 10 g
	Open, Shock Direction: C1 20 g
	Open, Shock Direction: C2 20 g
Resistance to Vibrations	4g Closed Position & 2g Open position 5 300 Hz

Material Compliance

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Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
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	ABS_20-2060694-PDA
CB Certificate	CB_SE-96553M1
CCC Certificate	CCC_2010010304445623
CQC Certificate	CQC2010010304445623 CQC2020010304294316
Declaration of Conformity - CCC	2020980304001254 2020980304001052
Declaration of Conformity - CE	1SBD250001U1000
Declaration of Conformity - UKCA	1SBD250032U1000
DNV Certificate	DNV_TAE00001AF-4
EAC Certificate	EAC_RU_FRME77B03447
GOST Certificate	GOST_POCCFR.ME77.B07175.pdf
KC Certificate	KC_HW02016-15002C
LR Certificate	LRS_LR23403517TA-02
RINA Certificate	RINA_ELE084013XG
RMRS Certificate	RMRS_1802705280
UL Certificate	UL-US-L319322-13-72119002-5 UL-CA-L319322-43-72119002-6
UL Listing Card	UL_E319322

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	103 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.36 kg
Package Level 1 EAN	3471523116528
Package Level 2 Units	box 18 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	12.96 kg
Package Level 3 Units	864 piece

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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
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)	3705853
E-Number (Sweden)	3211523

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow AF\ Contactors \rightarrow AF38$

