AF38-22-00-11



General Information

Extended Product Type:	AF38-22-00-11
Product ID:	1SBL297501R1100
EAN:	3471523116511
Catalog Description:	AF38-22-00-11 24-60V50/60HZ 20-60VDC Contactor
Long Description:	AF38 4-pole contactors are used for controlling power circuits up to 690 V AC and 440 V DC. They are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance fumaces). AF contactors include an electronic coil interface accepting a wide control voltage Uc min Uc max. Only four coils cover control voltages between 24500 V 50/60 Hz or 20500 V DC. AF contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surge suppressors. The AF series 4-pole contactors are of the block type design Main poles and auxiliary contact blocks: 2 N.O. + 2 N.C. main poles, front and side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available. Note: - AF11 not suitable for a direct control by PLC-output AF11 type available in some countries: please consult your ABB representative.

Categories

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

Ordering	
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85369085
EAN:	3471523116511
Dimensions	
Product Net Depth:	101 mm
Product Net Height:	86 mm
Product Net Weight:	0.360 kg
Product Net Width:	45 mm
Container Information	
Package Level 1 Width:	87 mm
Package Level 1 Length:	103 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.36 kg
Package Level 1 EAN:	3471523116511
Package Level 2 Units:	36 piece
Package Level 2 Width:	250 mm
Package Level 2 Length:	300 mm
Package Level 2 Height:	315 mm
Package Level 3 Units:	864 piece
Package Level 1 Units:	1 piece
Technical	
Number of Main Contacts NC:	2
Number of Auxiliary Contacts NO:	0
Number of Auxiliary Contacts NC:	0
Standards:	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14
Rated Operational Voltage:	Main Circuit 690 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 55 A
Rated Operational Current AC-1 (I _e):	(690 V) 40 °C 55 A (690 V) 60 °C 45 A (690 V) 70 °C 37 A
Poted Operational Current AC 2 (L):	(220 / 220 / 240) () 60 % 22 2 4

Rated Operational Current AC-3 (I_e): (220 / 230 / 240 V) 60 °C 23.2 A (380 / 400 V) 60 °C 22 A

(415 V) 60 °C 21.2 A (440 V) 60 °C 20 A (500 V) 60 °C 17.6 A (690 V) 60 °C 10.5 A

Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 5.5 kW (400 V) 11 kW (415 V) 11 kW (440 V) 11 kW (500 V) 11 kW (690 V) 9 kW
Rated Short-time Withstand Current (I _{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 450 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour
Rated Insulation Voltage (Ui):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U _{imp}):	6 kV
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Control Circuit Voltage (U _c):	50 Hz 24 60 V 60 Hz 24 60 V DC Operation 20 60 V
Operate Time:	Between Coil De-energization and NC Contact Closing 1398 ms Between Coil De-energization and NO Contact Opening 1195 ms Between Coil Energization and NC Contact Opening 3890 ms Between Coil Energization and NO Contact Closing 4095 ms
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1x 1.516 mm ² Flexible with Insulated Ferrule 2x 1.516 mm ² Flexible with Ferrule 1/2x 1.516 mm ² Rigid 1/2x 1.516 mm ²
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 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
reminar rype.	Sciew Terrinidis
Number of Main Contacts NO:	2
Number of Main Contacts NO:	
Number of Main Contacts NO: Environmental	2
Number of Main Contacts NO: Environmental Climatic Withstand: Maximum Operating Altitude	
Number of Main Contacts NO: Environmental Climatic Withstand: Maximum Operating Altitude Permissible: Resistance to Vibrations acc. to IEC	2 Category B according to IEC 60947-1 Annex Q
Number of Main Contacts NO: Environmental Climatic Withstand: Maximum Operating Altitude Permissible: Resistance to Vibrations acc. to IEC 60068-2-6: Resistance to Shock acc. to IEC 60068-2-27:	2 Category B according to IEC 60947-1 Annex Q 3000 m 5 300 Hz 4 g closed position / 2 g open position Closed, Shock Direction: A 30 g 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: B1 5 g Open, Shock Direction: B2 10 g Open, Shock Direction: C1 20 g Open, Shock Direction: C2 20 g
Number of Main Contacts NO: Environmental Climatic Withstand: Maximum Operating Altitude Permissible: Resistance to Vibrations acc. to IEC 60068-2-6: Resistance to Shock acc. to IEC 60068-2-7: RoHS Status:	2 Category B according to IEC 60947-1 Annex Q 3000 m 5 300 Hz 4 g closed position / 2 g open position Closed, Shock Direction: A 30 g 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: B1 5 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 Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1
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DNV Certificate:	DNV-GL_E13871
EAC Certificate:	EAC_RU C-FR ME77 B01010
GL Certificate:	DNV-GL_E13871
GOST Certificate:	GOST_POCCFR.ME77.B07175.pdf
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251015E1000
UL Certificate:	UL_20100802-E319322-3-1

Classifications

E-nummer:	3211522
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
Object Classification Code:	Q

