AF52-30-00-12



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

 Extended Product Type:
 AF52-30-00-12

 Product ID:
 1SBL367001R1200

 EAN:
 3471523132320

Catalog Description: AF52-30-00-12 48-130V50/60HZ-DC Contactor

Long Description: AF52 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. The

ange of accessories is available.

y are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF... contactors include an electronic coil interface accepting a wide control voltage Uc min Uc max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 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 1-sta ck 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, front and side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: AC or DC operated - Accessories: a wide r

Additional Information

ABB Industrial IT Suite:	Control IT				
ABS Certificate:	ABS_15-GE1349500-PDA_90682247				
Ambient Air Temperature:	Close to Contactor for Storage -60+80 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C				
BV Certificate:	BV_2634H36994A				
Block Contactor Type:	3-Pole Contactor				
CB Certificate:	CB_SE_77418				
CCC Certificate:	CCC_2012010304589737				
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q				
Coil Voltage Code:	12				
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 1 2.5 mm²				
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 435 mm² Flexible with Ferrule 1/2x 435 mm² Rigid 1/2x 635 mm²				
Conventional Free-air Thermal Current (I _{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A				
Country of Origin:	France (FR)				
Customs Tariff Number:	85364900				
Data Sheet, Technical Information:	1SBC100173C0201				
Declaration of Conformity - CE:	1SBD250000U1000				
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10				
E-nummer:	3210038				
EAC Certificate:	EAC_RU C-FR ME77 B01010				
EAN:	3471523132320				
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / Contactors				
EPLAN Function Definition:	Coil / Coil, 2 connection points / Coil for power contactor A1_A2 NO contact / NO contact, 2 connection points / Power NO contact 1_2 NO contact / NO contact, 2 connection points / Power NO contact 3_4				

	NU contact / NU contact, 2 connection points / Power NU contact 5 6			
EPLAN Macro:	9AKK106930A0708			
ЕПМ 4:	EC000066 - Magnet contactor, AC-switching			
ЕПМ 5:	EC000066 - Magnet contactor, AC-switching			
ЕПМ 6:	EC000066 - Power contactor, AC switching			
Environmental Information:	1SBD250168E1000			
Full Load Amps Motor Use:	(120 V AC) Single Phase 34 A (240 V AC) Single Phase 50 A (200 208 V AC) Three Phase 48.3 A (220 240 V AC) Three Phase 54 A (440 480 V AC) Three Phase 52 A (550 600 V AC) Three Phase 52 A			
General Use Rating UL/CSA:	(600 V AC) 80 A			
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 3 Hp (240 V AC) Single Phase 10 Hp (200 208 V AC) Three Phase 15 Hp (220 240 V AC) Three Phase 20 Hp (440 480 V AC) Three Phase 40 Hp (550 600 V AC) Three Phase 50 Hp			
IIT Publishing Status:	Level 0 - Information enabled			
Industrial IT Certification Level:	0			
Instructions and Manuals:	1SBC101036M6801			
Invoice Description:	AF52-30-00-12 48-130V50/60HZ-DC Contactor			
LR Certificate:	LRS_1300087E1			
Low Coil Consumption:	No			
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 600 A			
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour			
Maximum Mechanical Switching Frequency:	3600 cycles per hour			
Maximum Operating Altitude Permissible:	3000 m			
Minimum Order Quantity:	1 piece			
Mounted Auxiliary Contacts:	0 NO, 0 NC			
Mounted Auxiliary Contacts 1st Stack:	0 NO, 0 NC			
Mounted Auxiliary Contacts 2nd Stack:	0 NO, 0 NC			
Mounting Position:	Max. N.C. built-in and add-on N.C. auxiliary contacts: see accessory fitting details for a 3-pole contactor AF40 AF96			
Mounting Positions:	1SBC500297F0000			
Number of Auxiliary Contacts NC:	0			
Number of Auxiliary Contacts NO:	0			
Number of Main Contacts NC:	0			
Number of Main Contacts NO:	3			
Object Classification Code:	Q			
Operate Time:	Between Coil De-energization and NC Contact Closing 19 105 ms Between Coil De-energization and NO Contact Opening 17 100 ms Between Coil Energization and NC Contact Opening 38 95 ms Between Coil Energization and NO Contact Closing 42 100 ms			
Order Multiple:	1 piece			
Package Level 1 EAN:	3471523132320			
Package Level 1 Gross Weight:	1.07 kg			
Package Level 1 Height:	97 mm			
Package Level 1 Length:	150 mm			

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Package Level 1 Units:	1 piece			
Package Level 1 Width:	150 mm			
Package Level 2 Height:	300 mm			
Package Level 2 Length:	300 mm			
Package Level 2 Units:	10 piece			
Package Level 2 Width:	250 mm			
Package Level 3 Units:	240 piece			
Packing Type:	Box			
Power Loss:	at Rated Operating Conditions AC-1 per Pole 6.3 W at Rated Operating Conditions AC-3 per Pole 1.7 W			
Product Main Type:	AF52			
Product Name:	Block Contactor			
Product Net Depth:	111 mm			
Product Net Height:	125.5 mm			
Product Net Weight:	0.970 kg			
Product Net Width:	55 mm			
Product Packing Type:	Вох			
RINA Certificate:	RINA_ELE084013XG			
RMRS Certificate:	RMRS_1400682124			
Rated Control Circuit Voltage (U _c):	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V			
Rated Frequency (f):	Main Circuit 50 / 60 Hz			
Rated Impulse Withstand Voltage (U _{imp}):	6 kV			
Rated Insulation Voltage (U _i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V			
Rated Operational Current AC-1 (I _e):	(690 V) 40 °C 100 A (690 V) 60 °C 80 A (690 V) 70 °C 70 A			
Rated Operational Current AC-3 (I _e):	(220 / 230 / 240 V) 60 °C 53 A (380 / 400 V) 60 °C 53 A (415 V) 60 °C 53 A (440 V) 60 °C 53 A (500 V) 60 °C 45 A (690 V) 60 °C 35 A			
Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 15 kW (380 / 400 V) 22 kW (400 V) 22 kW (415 V) 30 kW (440 V) 30 kW (500 V) 30 kW (690 V) 30 kW			
Rated Operational Voltage:	Main Circuit 690 V			
Rated Short-time Withstand Current (I _{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A			
Resistance to Shock acc. to IEC 60068-2-27:	Closed, Shock Direction: A 25 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			
Resistance to Vibrations acc. to IEC	5 300 Hz 3 g closed position / 3 g open position			

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RoHS Information:	1SBD251021E1000		
Selling Unit of Measure:	piece		
Short Description:	AF52-30-00-12 48-130V50/60HZ-DC Contactor		
Terminal Type:	Screw Terminals		
Tightening Torque:	Control Circuit 1.2 N·m Main Circuit 4 N·m		
Tightening Torque UL/CSA:	Control Circuit 11 in·lb Main Circuit 35 in·lb		
UL Certificate:	UL_20130926-E312527_14_1		
UL Listing Card:	UL_E312527		
UNSPSC:	39121529		
Wire Stripping Length:	Main Circuit 16 mm		
DNV GL Certificate:	DNV-GL_E13871		

