AF16-40-00-12



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

 Extended Product Type:
 AF16-40-00-12

 Product ID:
 1SBL177201R1200

 EAN:
 3471523115125

Catalog Description: AF16-40-00-12 48-130V50/60HZ-DC Contactor

Long Description: AF16 4-pole contactors are used for controlling power circuits up to 690 V AC and 440 V D

C. They are mainly used for controlling non-inductive or slightly inductive loads (i.e. resista nce furnaces...). 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 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.O. main poles, front and side-mounted add-on auxiliary contact blocks (me chanically-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 - Acc

essories: a wide range of accessories is available.

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 Near Contactor for Operation in Free Air -40 +70 °C
Block Contactor Type:	4-Pole Contactor
CB Certificate:	CB_SE_70857M1
CCC Certificate:	CCC_2010010304445624
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 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
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1x 0.754 mm ² Flexible with Insulated Ferrule 2x 0.752.5 mm ² Flexible with Ferrule 1/2x 0.756 mm ² Rigid 1/2x 16 mm ²
Conventional Free-air Thermal Current (I _{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 A
Country of Origin:	France (FR)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	1SBC101420D0201
Declaration of Conformity - CE:	1SBD250001U1000
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
E-nummer:	3211397
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471523115125
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 NO contact / NO contact. 2 connection points / Power NO contact 5_6

PPLAN Macro: 9.4461106930A0692		NO contact / NO contact, 2 connection points / Power NO contact 7_8
ETM S: EC000066 - Magnet contactor, AC-switching ETM 6: EC000066 - Power contactor, AC switching ETM 6: EC000066 - EC0006 - E	EPLAN Macro:	9AKK106930A0692
Emitor	ЕПМ 4:	EC000066 - Magnet contactor, AC-switching
Instruction	ЕПМ 5:	EC000066 - Magnet contactor, AC-switching
COST Certificate: GOST_POCCFR ME77.B07175.pdf General Like Rating LUCSA: (600 V AC) 30 A Inclustrial IT Certification Level: Level 0 - Information enabled Inclustrial IT Certification Level: 0 Inclustrial IT Certification Level: 1 SBC101027M8801 Invoice Description: AF16-40-00-12 48-130V50/60HZ-DC Centactor LEX_1300087E1 Low Coll Consumption: No Maximum Beaking Capacity: cos phile 0.45 (cos phile 0.35 for le > 100 A) at 440 V 250 A cos phile 0.45 (cos phile 0.35 for le > 100 A) at 680 V 108 A Maximum Mechanical Switching Prequency. AC-1 600 cycles per hour Frequency. Maximum Mochanical Switching Prequency. 3000 cycles per hour Frequency. Meximum Order Cuantity. 1 piace Maximum Order Cuantity. 1 piace Maximum Order Cuantity. 0 NO, 0 NC Mounting Position: Max add-on NC: auxiliary contacts: see accessory fitting details for a 4-pole contactor AF09 m. AF38 Mounting Position: 1 sBC500297F0000 Number of Main Cortacts NC: 0 Number of Main Cortacts NC: 4 Object Classification Code: 0 Operate T	ЕТІМ 6:	EC000066 - Power contactor, AC switching
Control Use Rating ULCSA	Environmental Information:	1SBD250147E1000
In Publishing Status:	GOST Certificate:	GOST POCCFR.ME77.B07175.pdf
Industrial IT Certification Level: Instructions and Manuals: ISBC101027M6801 Inredice Description: AF16-40-00-12 48-130V50/60HZ-DC Contactor IRC Acrtificatie: LRS_1300087E1 Low Coil Consumption: No Moximum Breaking Capacity: cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 ∨ 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 ∨ 106 A Maximum Mechanical Switching Prequency: Maximum Mechanical Switching Prequency: Maximum Mechanical Switching Prequency: Maximum Operating Altitude Permissible: 3800 cycles per hour Minimum Order Quantily: 1 place Mourted Auxiliary Cortacts: 0 NO, 0 NC Mourted Auxiliary Cortacts: 0 NO, 0 NC Mourted Auxiliary Cortacts 15th Mourted Auxiliary Cortacts NC: 0 NO, 0 NC Mourting Positions: 158C500297F0000 Namber of Main Cortacts NC: 0 Number of Main Cortacts NC: 0 Coperate Time: Detween Coil De-energization and NC Contact Closing 1398 ms Between Coil De-energization and NC Contact Closing 1495 ms Between Coil Energization and NC Contact Opening 3890 ms Between Coil Energization and NC Contact Closing 4095 ms Order Multiple: 1 plece Package Level 1 ERN: 7 mm Package Level 1 Height: 7 mm Package Level 1 Height: 9 pickage Level 1 Height: 5 pickage Level 2 Width: 7 por Monupolations AC-1 per Pole 1.2 W Package Level 2 Width: 2 50 mm	General Use Rating UL/CSA:	(600 V AC) 30 A
Instructions and Manuals: Invoice Description: IR Cortificates: IR Control (188, 1300087E1 Low Coil Consumption: No Maximum Bactrical Switching Frequency. Cos phi=0.45 (cos phi=0.35 for lo > 100 A) at 440 ∨ 250 A cos phi=0.45 (cos phi=0.35 for lo > 100 A) at 460 ∨ 106 A Maximum Bactrical Switching Frequency. Maximum Decrating Altitude Permissible: Maximum Operating Altitude Permissible: Mounted Auxiliary Contacts (188, 188) Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No, 0 NC Mounted Auxiliary Contacts 1st Stack: No No No NC Mounted Auxiliary Contacts NC: No No No NC Mounted Auxiliary Contacts NC: Namber of Main Contact NC: Namber of Main Contacts NC: Namber of Main Contact NC: Namber of Main Contacts NC: Namber of Main	IIT Publishing Status:	Level 0 - Information enabled
Invoice Description:	Industrial IT Certification Level:	0
Low Coil Consumption: No Maximum Breaking Capacity: cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A cos phi=0.45 for le > 100 A) at 690 V 106 A Maximum Bectrical Switching Frequency: AC-1 600 cycles per hour Maximum Mechanical Switching Frequency: 3600 cycles per hour Maximum Operating Altitude Permissible: 3000 m Minimum Order Quaritly: 1 piece Mounted Auxiliary Contacts: 0 NO, 0 NC Mounting Positions: 1 SBC500297F0000 Murnber of Auxiliary Contacts NC: 0 Number of Auxiliary Contacts NC: 0 Number of Main Contacts NC: 0 Number of Main Contacts NC: 0 Number of Main Contacts NC: 0 Operate Time: Between Coil De-energization and NC Contact Closing 1398 ms Between Coil De-energization and NC Contact Closing 1195 ms Between Coil Energization and NC Contact Opening 3195 ms Between Coil Energization and NC Contact Opening 3195 ms Between Coil Energization and NC Contact	Instructions and Manuals:	1SBC101027M6801
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Package Level 1 Gross Weight: 0.27 kg Package Level 1 Height: 47 mm Package Level 1 Length: 79 mm Package Level 1 Units: 1 piece Package Level 1 Width: 87 mm Package Level 2 Height: 315 mm Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Order Multiple:	1 piece
Package Level 1 Height: 47 mm Package Level 1 Length: 79 mm Package Level 1 Units: 1 piece Package Level 1 Width: 87 mm Package Level 2 Height: 315 mm Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 1 EAN:	3471523115125
Package Level 1 Length: 79 mm Package Level 1 Units: 1 piece Package Level 1 Width: 87 mm Package Level 2 Height: 315 mm Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 1 Gross Weight:	0.27 kg
Package Level 1 Units: 1 piece Package Level 2 Width: 87 mm Package Level 2 Height: 315 mm Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 1 Height:	47 mm
Package Level 1 Width: 87 mm Package Level 2 Height: 315 mm Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 1 Length:	79 mm
Package Level 2 Height: 315 mm Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 1 Units:	1 piece
Package Level 2 Length: 300 mm Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 1 Width:	87 mm
Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 2 Height:	315 mm
Package Level 2 Width: 250 mm Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 2 Length:	300 mm
Package Level 3 Units: 1296 piece Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 2 Units:	54 piece
Power Loss: at Rated Operating Conditions AC-1 per Pole 1.2 W	Package Level 2 Width:	250 mm
	Package Level 3 Units:	1296 piece
Product Main Type: AF16	Power Loss:	at Rated Operating Conditions AC-1 per Pole 1.2 W
	Product Main Type:	AF16

Product Name:	Block Contactor
Product Net Depth:	77 mm
Product Net Height:	86 mm
Product Net Weight:	0.270 kg
Product Net Width:	45 mm
Product Packing Type:	Box
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 30 A (690 V) 60 °C 30 A (690 V) 70 °C 26 A
Rated Operational Current AC-3 (I _e):	(220 / 230 / 240 V) 60 °C 18 A (380 / 400 V) 60 °C 18 A (415 V) 60 °C 18 A (440 V) 60 °C 18 A (500 V) 60 °C 15 A (690 V) 60 °C 10.5 A
Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 4 kW (380 / 400 V) 7.5 kW (400 V) 7.5 kW (415 V) 9 kW (440 V) 9 kW (500 V) 9 kW (690 V) 9 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 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A
Resistance to Shock acc. to IEC 60068-2-27:	Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g
Resistance to Vibrations acc. to IEC 60068-2-6:	5 300 Hz 4 g closed position / 2 g open position
RoHS Date:	20090609
RoHS Information:	1SBD251011E1000
Selling Unit of Measure:	piece
Short Description:	AF16-40-00-12 48-130V50/60HZ-DC Contactor
Standards:	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14
Terminal Type:	Screw Terminals
Tightening Torque:	Control Circuit 1.2 N·m Main Circuit 1.5 N·m
Tightening Torque UL/CSA:	Control Circuit 11 in·lb Main Circuit 13 in·lb
UL Certificate:	UL 20120918-E319322-3-1

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UL Listing Card:	UL_E319322
UNSPSC:	39121529
Wire Stripping Length:	Control Circuit 10 mm Main Circuit 10 mm
DNV GL Certificate:	DNV-GL_E13871

