

Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

Extended Product Type:	AF80-40-00-13
Product ID:	1SBL397201R1300
EAN:	3471523133730
Catalog Description:	AF80-40-00-13 100-250V50/60HZ-DC Contactor
Long Description:	AF80 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 furnaces...). AF... contactors include an electronic coil interface accepting a wide control voltage $U_c \text{ min.} \dots U_c \text{ max.}$ 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 (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 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-77417M1
CCC Certificate:	CCC_2013010304646569
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Coil Voltage Code:	13
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 2.5 mm ²
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 6...50 mm ² Rigid 1x 6...70 mm ² Rigid 2x 6...50 mm ²
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 125 A
Country of Origin:	France (FR)
Customs Tariff Number:	85364900
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 IP10
E-number:	3210315
EAN:	3471523133730
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 NO contact / NO contact, 2 connection points / Power NO contact 7_8
EPLAN Macro:	9AKK106930A0726
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching

ETIM 6:	EC000066 - Power contactor, AC switching
Full Load Amps Motor Use:	(120 V AC) Single Phase 80 A (240 V AC) Single Phase 68 A (200 ... 208 V AC) Three Phase 78.2 A (220 ... 240 V AC) Three Phase 80 A (440 ... 480 V AC) Three Phase 77 A (550 ... 600 V AC) Three Phase 77 A
General Use Rating UL/CSA:	(600 V AC) 105 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 7-1/2 Hp (240 V AC) Single Phase 15 Hp (200 ... 208 V AC) Three Phase 25 Hp (220 ... 240 V AC) Three Phase 30 Hp (440 ... 480 V AC) Three Phase 60 Hp (550 ... 600 V AC) Three Phase 75 Hp
IT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SBC101047M6801
Invoice Description:	AF80-40-00-13 100-250V50/60HZ-DC Contactor
LR Certificate:	LRS_1300087E1
Low Coil Consumption:	No
Maximum Electrical Switching Frequency:	AC-1 600 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
Mounting Position:	Max. add-on N.C. auxiliary contacts: see accessory fitting details for a 4-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:	4
Object Classification Code:	Q
Order Multiple:	1 piece
Package Level 1 EAN:	3471523133730
Package Level 1 Gross Weight:	1.57 kg
Package Level 1 Height:	103 mm
Package Level 1 Length:	150 mm
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:	8 piece
Package Level 2 Width:	250 mm
Package Level 3 Units:	192 piece
Packing Type:	Box
Power Loss:	at Rated Operating Conditions AC-1 per Pole 8 W at Rated Operating Conditions AC-3 per Pole 3.2 W
Product Main Type:	AF80
Product Name:	Block Contactor
Product Net Depth:	116 mm

Product Net Height:	125.5 mm
Product Net Weight:	1.44 kg
Product Net Width:	90 mm
Product Packing Type:	Box
RMRS Certificate:	RMRS_1400682124
Rated Control Circuit Voltage (U_c):	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Rated Frequency (f):	Main Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Operational Current AC-1 (I_b):	(690 V) 40 °C 125 A (690 V) 60 °C 105 A (690 V) 70 °C 90 A
Rated Operational Current AC-3 (I_b):	(220 / 230 / 240 V) 60 °C 80 A (380 / 400 V) 60 °C 80 A (415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 22 kW (380 / 400 V) 37 kW (415 V) 45 kW (440 V) 45 kW (500 V) 45 kW (690 V) 45 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 780 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A
Resistance to Vibrations acc. to IEC 60068-2-6:	5 ... 300 Hz 3 g Closed position / 2 g Open position
Selling Unit of Measure:	piece
Short Description:	AF80-40-00-13 100-250V50/60HZ-DC Contactor
Terminal Type:	Screw Terminals
UL Certificate:	UL_20141124-E312527-14-2
UL Listing Card:	UL_E312527
UNSPSC:	39121529
Wire Stripping Length:	Main Circuit 17 mm



