AF40-40-00-11

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

General Information

Extended Product Type:	AF40-40-00-11
Product ID:	1SBL347201R1100
EAN:	3471523133518
Catalog Description:	AF40-40-00-11 24-60V50/60HZ 20-60VDC Contactor
Long Description:	AF40 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 sli ghtly inductive loads (i.e. resistance furnaces...). AF... contactors include a n electronic coil interface accepting a wide control voltage Uc min. ... Uc m ax. Only four coils cover control voltages between 24...500 V 50/60 Hz or 2 0...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 re quire 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 (mecha nically-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 cir cuit: AC or DC operated - Accessories: a wide range of accessories is avail able.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Instructions and Manuals:	1SBC101047M6801

Dimensions

Product Net Width:	70 mm
Product Net Depth / Length:	113.5 mm
Product Net Height:	125.5 mm
Product Net Weight:	1.21 kg

Technical

Number of Main Contacts NO:	4
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Auxiliary Contacts NC:	0

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 105 A
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 70 A (690 V) 60 °C 60 A (690 V) 70 °C 50 A
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 40 A (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW
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
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 600 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour
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 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
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 4 ... 35 mm² Rigid 1/2x 6 ... 3 5 mm²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Rigid 1/2x 1 ... 2.5 mm²
Wire Stripping Length:	Main Circuit 16 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 IP10

Terminal Type:	Screw Terminals

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:	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6:	5 ... 300 Hz 3 g Closed position / 2 g Open position

Technical UL/CSA

General Use Rating UL/CSA:	(600 V AC) 60 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 3 Hp (240 V AC) Single Phase 7-1/2 Hp (200 ... 208 V AC) Three Phase 10 Hp (220 ... 240 V AC) Three Phase 15 Hp (440 ... 480 V AC) Three Phase 30 Hp (550 ... 600 V AC) Three Phase 40 Hp

Certificates and Declarations (Document Number)

ABS Certificate:	ABS_15-GE1349500-PDA_90682247
CB Certificate:	CB_SE_77418
Declaration of Conformity - CE:	1SBD250001U1000
DNV Certificate:	DNV-GL_TAE00001AF-1
DNV GL Certificate:	DNV-GL_TAE00001AF-1
Instructions and Manuals:	1SBC101047M6801
KC Certificate:	KC_HW02016-15009A
LR Certificate:	LRS_1300087E1
RMRS Certificate:	RMRS_1400682124
UL Certificate:	UL_20141124-E312527-14-2
UL Listing Card:	UL_E312527

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	150 mm
Package Level 1 Depth / Length:	150 mm
Package Level 1 Height:	103 mm
Package Level 1 Gross Weight:	1.32 kg
Package Level 1 EAN:	3471523133518
Package Level 2 Units:	8 piece

Package Level 2 Width:	250 mm
Package Level 2 Depth / Length:	300 mm
Package Level 2 Height:	300 mm
Package Level 3 Units:	192 piece

Classifications

Object Classification Code:	Q
E-nummer:	3210296
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529