AF40-22-00-12



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

General Information

Extended Product Type: AF40-22-00-12

Product ID: 1SBL347501R1200

EAN: 3471523133822

AF40-22-00-12 48-130V50/60HZ-DC Contactor **Catalog Description:**

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: 2 N.O. + 2 N.C. main poles, front and side-mounted add-on auxiliary contact block s (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60 947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) -Control circuit: AC or DC operated - Accessories: a wide range of accessor

ies is available.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Instructions and Manuals: 1SBC101047M6801

Dimensions

Product Net Width: 70 mm

113.5 mm **Product Net Depth / Length:**

Product Net Height: 125.5 mm

Product Net Weight: 1.21 kg

Technical

Number of Main Contacts NO: 2

2 **Number of Main Contacts NC:**

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 for 1 s -empty- A
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
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 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 4 35 mm ² Rigid 1/2x 6 3 5 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Rigid 1/2x 1 2.5 mm ²
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)

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

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: 3471523133822

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 2 Gross Weight: 10.56 kg
Package Level 3 Units: 192 piece

Classifications

Object Classification Code:	Q
E-nummer:	3210305
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
ETIM 7:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529

