AF52-30-00-13



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

General Information

Extended Product Type: AF52-30-00-13

Product ID: 1SBL367001R1300 EAN: 3471523132337

Catalog Description: AF52-30-00-13 100-250V50/60HZ-DC Contactor

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

220 V DC. They are mainly used for controlling 3-phase motors, non-induct ive or slightly inductive loads. AF... contactors include an electronic coil int erface 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 c ontactors can manage large control voltage variations. One coil can be use d for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surg e suppressors. The AF... series 1-stack 3-pole contactors are of the block t ype design. - Main poles and auxiliary contact blocks: 3 main poles, front a nd side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contact s compliant with Annex F of IEC 60947-4-1) - Control circuit: AC or DC ope

rated - Accessories: a wide range of accessories is available.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SBC100173C0201

Instructions and Manuals: 1SBC101036M6801

Dimensions

Product Net Width: 55 mm

Product Net Depth: 111 mm

Product Net Height: 125.5 mm

Product Net Weight: 0.950 kg

Technical

Number of Main Contacts NO: 3

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 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 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 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
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 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
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

Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
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
nvironmental	
Terminal Type:	Screw Terminals
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Wire Stripping Length:	Main Circuit 16 mm
	Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 1/2x 1 2.5 mm ²
Circuit:	Flexible with Insulated Ferrule 1x 0.75 2.5 mm ²
Connecting Capacity Control	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 4 35 mm ² Flexible with Ferrule 1/2x 4 35 mm ² Rigid 1/2x 6 3 5 mm ²

Cilliatic Withstalia.	Category B according to IEC 60947-1 Annex	
Maximum Operating Altitude	3000 m	

Resistance to Vibrations acc. to

5 ... 300 Hz 3 g closed position / 3 g open position

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

Technical UL/CSA

Permissible:

IEC 60068-2-6:

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
Tightening Torque UL/CSA:	Control Circuit 11 in·lb
	Main Circuit 35 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	ABS_15-GE1349500-PDA_90682247
BV Certificate:	BV_2634H36994A
CB Certificate:	CB_SE_77418
CCC Certificate:	CCC_2012010304589737 CCC_2015010304824714

Declaration of Conformity - CE:	1SBD250000U1000
DNV Certificate:	DNV-GL_TAE00001AF-1
DNV GL Certificate:	DNV-GL_TAE00001AF-1
EAC Certificate:	EAC_RU C-FR ME77 B01010
Environmental Information:	1SBD250168E1000
Instructions and Manuals:	1SBC101036M6801
KC Certificate:	KC_HW02016-15010A
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251021E1000
UL Certificate:	UL_20130926-E312527_14_1
UL Listing Card:	UL_E312527

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	150 mm
Package Level 1 Length:	150 mm
Package Level 1 Height:	97 mm
Package Level 1 Gross Weight:	1.05 kg
Package Level 1 EAN:	3471523132337
Package Level 2 Units:	10 piece
Package Level 2 Width:	250 mm
Package Level 2 Length:	300 mm
Package Level 2 Height:	300 mm
Package Level 3 Units:	240 piece

Classifications

Object Classification Code:	Q
E-nummer:	3210039
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529

