

A16-30-10 220-230V 50Hz / 230-240V 60Hz



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

Extended Product Type:	A16-30-10 220-230V 50Hz / 230-240V 60Hz
Product ID:	1SBL181001R8010
EAN:	3471522050809
Catalog Description:	A16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
Long Description:	A16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The A... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

Additional Information

ABB Industrial IT Suite:	Control IT
Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C Close to Contactor for Storage -60 ... +80 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +55 °C Close to Contactor without Thermal O/L Relay (Uc) -40 ... +70 °C
BV Certificate:	BV_2634H07559D0
Block Contactor Type:	3-Pole Contactor
CB Certificate:	CB_FR_602227A
CCC Certificate:	CCC_2013010304615753 CCC_2004010309130463
CSA Certificate:	CSA_1041746
Climatic Withstand:	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Coil Consumption:	Average Holding Value 50 / 60 Hz 8 V·A Average Holding Value 50 / 60 Hz 2 W Average Pull-in Value 50 Hz 74 V·A Average Pull-in Value 60 Hz 70 V·A
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 ... 1.1 x Uc (at $\theta \leq 55$ °C) °C
Coil Voltage Code:	80
Connecting Capacity Auxiliary Circuit:	Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ²
Connecting Capacity Main Circuit:	Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ²
Connecting terminals (delivered in open position) Built-in auxiliary terminals:	M 3.5 (+,-) pozidriv 2 screws with cable clamp
Connecting terminals (delivered in open position) Coils terminals:	M 3.5 (+,-) pozidriv 2 screws with cable clamp
Connecting terminals (delivered in open position) Main poles:	M 3.5 (+,-) pozidriv 2 screws with cable clamp
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 30 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Country of Origin:	France (FR)
Customs Tariff Number:	85369085
Data Sheet, Technical Information:	1SBC100122C0202_Ch02
Declaration of Conformity - CE:	1SBD250801U1000
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Drop-out Voltage in % of Uc:	Approximate 40 ... 65 %

Drop-out Voltage in 70% U _c :	Approximate 40 ... 50 %
E-number:	3227724
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471522050809
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
Environmental Information:	1SBD250003E1004
GOST Certificate:	GOST_POCCFRME77B07175
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	FPTC407721P0001
Invoice Description:	A16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
LOVAG Certificate:	LOVAG_FR97039
LR Certificate:	LRS_9830011E4
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 90 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-2 / AC-4 300 cycles per hour AC-3 1200 cycles per hour
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Minimum Order Quantity:	1 piece
Minimum Switching Capacity:	17 / 5 volt per milliamp
Mounted Auxiliary Contacts 1st Stack:	1 NO, 0 NC
Mounted Auxiliary Contacts 2nd Stack:	0 NO, 0 NC
Mounting Position:	Position 1 to 5 -Ambient temperature =<55°C and control voltage 0.85 - 1.1 U _c , Ambient temperature 55 - 70°C and control voltage equal to U _c , Position 6 - Ambient temperature =<55°C and control voltage 0.95 - 1.1 U _c , Ambient temperature >55°C unauthorised
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Object Classification Code:	Q
Operate Time:	Between Coil Energization and NO Contact Closing 10 ... 26 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Package Level 1 EAN:	3471522050809
Package Level 1 Gross Weight:	0.34 kg
Package Level 1 Height:	47 mm
Package Level 1 Length:	76 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	78 mm
Package Level 2 Units:	63 piece
Package Level 3 Units:	1220 piece
Power Loss:	at Rated Operating Conditions per Pole 0.35 W at Rated Operating Conditions per Pole 0.1 W at Rated Operating Conditions per Pole 1.2 W
Product Main Type:	A16
Product Name:	Block Contactor
Product Net Depth:	74 mm

Product Net Height:	74 mm
Product Net Weight:	0.340 kg
Product Net Width:	44 mm
RINA Certificate:	RINA_ELE128713XG001
RMRS Certificate:	RMRS_0507015250
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I _e AC-3
Rated Breaking Capacity acc. to IEC 60947-5-1:	10 x I _e AC-15
Rated Control Circuit Voltage (U_c):	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
Rated Frequency (f):	Supply Circuit 50 Hz Supply Circuit 60 Hz
Rated Frequency Limits:	25 ... 400 Hz
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Rated Insulation Voltage (U_i):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I _e AC-3
Rated Making Capacity acc. to IEC 60947-5-1:	10 x I _e AC-15
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 30 A (690 V) 55 °C 27 A (690 V) 70 °C 23 A
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) 55 °C 17 A (380 / 400 V) 55 °C 17 A (415 V) 55 °C 17 A (440 V) 55 °C 16 A (500 V) 55 °C 14 A (690 V) 55 °C 10 A
Rated Operational Current DC-13 (I_e):	(125 V) 1.1 / 138 A (24 V) 6 / 144 A (250 V) 0.55 / 138 A (48 V) 2.8 / 134 A (72 V) 2 / 144 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 4 kW (380 / 400 V) 7.5 kW (415 V) 9 kW (440 V) 9 kW (500 V) 9 kW (690 V) 9 kW
Rated Operational Power AC-6b (P_e):	(690 V) 70 °C, 50 / 60 Hz 16.5 kvar (690 V) 55 °C, 50 / 60 Hz 21.5 kvar (690 V) 40 °C, 50 / 60 Hz 21.5 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 12 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 15.5 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 15.5 kvar (440 V) 70 °C, 50 / 60 Hz 10.5 kvar (440 V) 55 °C, 50 / 60 Hz 14 kvar (440 V) 40 °C, 50 / 60 Hz 14 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 10 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 12.5 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 12.5 kvar

(230 / 240 V) 70 °C, 50 / 60 Hz 6 kvar
(230 / 240 V) 55 °C, 50 / 60 Hz 7.5 kvar
(230 / 240 V) 40 °C, 50 / 60 Hz 7.5 kvar

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 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 30 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 for 0.1 s 140 A for 1 s 100 A
Resistance to Shock acc. to IEC 60068-2-27:	Shock Direction: A 20 g Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g
RoHS Date:	20060401
RoHS Information:	1SBD350050R1000
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Selling Unit of Measure:	piece
Short Description:	A16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 32 A
Standards:	Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1; EN 60 947-1 and amendment 2 to IEC 947-4-1
Terminal Type:	Screw Terminals
UL Certificate:	UL_20160205-E312527-10-2
UL Listing Card:	UL_E312527
UNSPSC:	39121529
DNV GL Certificate:	DNV-GL_TAE00000TX

