

UA16-30-10 220-230V 50Hz / 230-240V 60Hz



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

General Information

Extended Product Type:	UA16-30-10 220-230V 50Hz / 230-240V 60Hz
Product ID:	1SBL181022R8010
EAN:	3471522254801
Catalog Description:	UA16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
Long Description:	UA16 3-pole contactors for capacitor switching, can be used for the switching of capacitor banks whose inrush current peaks are less than or equal to 100 times nominal rms current. The table below gives the permissible powers according to operational voltage and temperature close to the contactor. It also specifies the maximum peak current \hat{I} values accepted by the contactor. The capacitors must be discharged (maximum residual voltage at terminal $s \leq 50$ V) before being re-energized when the contactors are making. In these conditions, electrical durability of contactors is equal to 100 000 operating cycles. The UA.. series 3-pole contactors are of the block type design. - Main poles and auxiliary contacts: 3 main poles , 1 built-in auxiliary contact - 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:	Near Contactor for Operation in Free Air (0.85 ... 1.1 U _c) -40 ... +55 °C Near Contactor for Operation in Free Air (U _c) -40 ... +70 °C Close to Contactor for Storage -60 ... +80 °C
CB Certificate:	CB_FR2880_60002378
CCC Certificate:	CCC_2003010304060097 CCC_2007010304257961
Climatic Withstand:	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 50 Hz 70 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 80 V·A Average Holding Value 50 / 60 Hz 8 V·A Average Holding Value 50 / 60 Hz 2 W Average Pull-in Value 50 Hz 70 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 U _c (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 60947-5-1, q = 40 °C 16 A
Country of Origin:	France (FR)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	1SBC101140C0203
Declaration of Conformity - CE:	1SBD250805U1000
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
FAC Certificate:	FAC: RIIC-FR MF77 R01010

EAN:	3471522254801
ETIM 4:	EC001079 - Capacitor magnet contactor
ETIM 5:	EC001079 - Capacitor magnet contactor
ETIM 6:	EC001079 - Capacitor contactor
Environmental Information:	1SBD250026E1000
GOST Certificate:	GOST_POCCFRME77B07175
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	FPTC407721P0001
Invoice Description:	UA16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 90 A
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Maximum Peak Current:	Ue = 500 V For Capacitor Switching Î 1.8 kV·A Ue > 500 V For Capacitor Switching Î 1.6 kV·A
Mechanical Durability:	10 million
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 Uc, Ambient temperature 55 - 70°C and control voltage equal to Uc, Position 6 - Ambient temperature =<55°C and control voltage 0.95 - 1.1 Uc, Ambient temperature >55°C unauthorised
Non-overlapping Time Between N.O. and N.C. Contacts:	>= 2 ms
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
Order Multiple:	1 piece
Package Level 1 EAN:	3471522254801
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 0.1 W
Product Main Type:	UA16
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

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
Rated Making Capacity acc. to IEC 60947-5-1:	10 x I _e AC-15
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 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-6b (P_e):	(690 V) 70 °C, 50 / 60 Hz 17 kvar (690 V) 55 °C, 50 / 60 Hz 20 kvar (690 V) 40 °C, 50 / 60 Hz 21.5 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 12.5 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 14.7 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 15.5 kvar (440 V) 70 °C, 50 / 60 Hz 11 kvar (440 V) 55 °C, 50 / 60 Hz 13 kvar (440 V) 40 °C, 50 / 60 Hz 13.7 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 10 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 11.7 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 6.7 kvar (230 / 240 V) 40 °C, 50 / 60 Hz 7.5 kvar
Rated Operational Voltage:	Auxiliary Circuit 690 V 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
RoHS Information:	1SBC101059D0201
RoHS Status:	No declaration needed
Selling Unit of Measure:	piece
Short Description:	UA16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 1.5 ... 1.8 A
Terminal Type:	Screw Terminals
UL Certificate:	UL_20160205-E312527-10-2
UL Listing Card:	UL_E312527
UNSPSC:	39121529

