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



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information	
Extended Product Type:	UA16-30-10RA 220-230V 50Hz / 230-240V 60Hz
Product ID:	1SBL181024R8010
EAN:	3471522300805
Catalog Description:	UA16-30-10RA 220-230V 50Hz / 230-240V 60Hz Contactor
Long Description:	UA16RA 3-pole contactors for capacitor switching, can be used in installations in which the peak current far exceeds 100 times nominal rms current. The contactors are delivered complete with their damping resistors and must be used without additional inductances (see table below). The capacitors must be discharged (maximum residual voltage at terminals $\leq$ 50 V) before being re-energized when the contactors are making. Their electrical durability is 250 000 operating cycles for Ue < 500 V and 100 000 operating cycles for 500 V $\leq$ Ue $\leq$ 690 V. The UARA contactors are fitted with a special front mounted block, which ensures the serial insertion of 3 damping resistors into the circuit to limit the current peak on energization of the capacitor bank. Their connection also ensures capacitor precharging in order to limit the second current peak occurring upon making of the main poles. The insertion of resistors allows to damp the highest current peak of the capacitor when switching on, whate ver its level. The UARA 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	

## Additional Information

ABB Industrial IT Suite:	Control IT
Ambient Air Temperature:	Near Contactor for Operation in Free Air (0.85 1.1 Uc) -40 +55 °C Near Contactor for Operation in Free Air (Uc) -40 +70 °C Close to Contactor for Storage -60 +80 °C
CCC Certificate:	CCC_2004010304138319
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 Holding Value 50 Hz 8 V·A Average Holding Value 50 Hz 2 W Average Holding Value 60 Hz 8 V·A Average Holding Value 60 Hz 2 W Average Pull-in Value 50 Hz 70 V·A Average Pull-in Value 60 Hz 80 V·A
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 1.1 x Uc (at θ ≤ 55 °C) °C
Coil Voltage Code:	80
Connecting Capacity Auxiliary Circuit:	Rigid Cable 1 4 mm² Flexible with Cable End 0.75 2.5 mm²
Connecting Capacity Main Circuit:	Rigid Cable 1 4 mm² Flexible with Cable End 0.75 2.5 mm²
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 Auxiliary Terminals IP20
Dimension Diagram:	FPTE307847
Drop-out Voltage in % of Uc:	Approximate 40 65 %
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471522300805
ETIM 4:	EC001079 - Capacitor magnet contactor
ETIM 5:	EC001079 - Capacitor magnet contactor
ETIM 6:	EC001079 - Capacitor contactor
Electrical Durability:	Ue =< 440 V 250000 cycle Ue = 500 690 V 100000 cycle
Environmental Information:	1SBD250123E1000
GOST Certificate:	GOST_POCCFRME77B07175
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SBC101002M5501
Insulation Resistance:	(500 V DC) After Durability Test 5 MΩ
Invoice Description:	UA16-30-10RA 220-230V 50Hz / 230-240V 60Hz Contactor
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 90 A
Maximum Electrical Switching Frequency:	240 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Maximum Peak Current:	Ue = 500 V For Capacitor Switching Î No limit kV·A
Minimum Order Quantity:	
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 temp
	erature 55 - 70°C and control voltage equal to Uc
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:	3471522300805
Package Level 1 Gross Weight:	0.46 kg
Package Level 1 Height:	63 mm
Package Level 1 Length:	155 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	135 mm
Package Level 2 Units:	63 piece
Package Level 3 Units:	260 piece
Power Loss:	at Rated Operating Conditions per Pole 0.1 W
Product Main Type:	UA16RA
Product Name:	Block Contactor
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Product Net Depth:	107 mm
Product Net Height:	120 mm
Product Net Weight:	0.460 kg
Product Net Width:	44 mm
Rated Breaking Capacity acc. to IEC 60947-5-1:	10 x le AC-15
Rated Control Circuit Voltage (U <sub>c</sub> ):	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 <sub>i</sub> ):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Making Capacity acc. to IEC 60947- 5-1:	10 x le AC-15
Rated Operational Current AC-15 (I <sub>e</sub> ):	(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 (l <sub>e</sub> ):	(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 <sub>e</sub> ):	(690 V) 70 °C, 50 / 60 Hz 17 kvar $(690 V) 55 °C, 50 / 60 Hz 21 kvar$ $(690 V) 40 °C, 50 / 60 Hz 22 kvar$ $(500 / 550 V) 70 °C, 50 / 60 Hz 12.5 kvar$ $(500 / 550 V) 55 °C, 50 / 60 Hz 16 kvar$ $(500 / 550 V), 40 °C, 50 / 60 Hz 18 kvar$ $(440 V) 70 °C, 50 / 60 Hz 11 kvar$ $(440 V) 55 °C, 50 / 60 Hz 13 kvar$ $(440 V) 40 °C, 50 / 60 Hz 15 kvar$ $(440 V) 40 °C, 50 / 60 Hz 10 kvar$ $(400 / 415 V) 70 °C, 50 / 60 Hz 12.5 kvar$ $(400 / 415 V) 40 °C, 50 / 60 Hz 12.5 kvar$ $(230 / 240 V) 70 °C, 50 / 60 Hz 7.5 kvar$ $(230 / 240 V) 40 °C, 50 / 60 Hz 8 kvar$
Rated Operational Voltage:	Main Circuit 690 V Auxiliary Circuit 690 V
Rated Short-time Withstand Current (I <sub>cw</sub> ):	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:	UA16-30-10RA 220-230V 50Hz / 230-240V 60Hz Contactor
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 80 A
Terminal Type:	Screw Terminals
UL Certificate:	UL_20160205-E312527-10-2

## UL Listing Card:

UL\_E312527 39121529

UNSPSC:

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