

UA30-30-10RA 220-230V 50Hz / 230-240V 60Hz



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

Extended Product Type:	UA30-30-10RA 220-230V 50Hz / 230-240V 60Hz
Product ID:	1SBL281024R8010
EAN:	3471522302809
Catalog Description:	UA30-30-10RA 220-230V 50Hz / 230-240V 60Hz Contactor
Long Description:	UA30..RA 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 ≤ 50 V) before being re-energized when the contactors are making. Their electrical durability is 250 000 operating cycles for $U_e < 500$ V and 100 000 operating cycles for $500 \text{ V} \leq U_e \leq 690$ V. The UA..RA 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, whatever its level. The UA..RA 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
CCC Certificate:	CCC_2004010304138316
CSA Certificate:	CSA_1033838_LR056745
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 12 V·A Average Holding Value 50 / 60 Hz 3 W Average Holding Value 50 Hz 12 V·A Average Holding Value 50 Hz 3 W Average Holding Value 60 Hz 12 V·A Average Holding Value 60 Hz 3 W Average Pull-in Value 50 Hz 120 V·A Average Pull-in Value 60 Hz 140 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:	Rigid Cable 1 ... 4 mm ² Flexible with Cable End 0.75 ... 2.5 mm ²
Connecting Capacity Main Circuit:	Rigid Cable 2.5 ... 6 mm ² Flexible with Cable End 2.5 ... 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 5 (+,-) pozidriv 2 screws with 2x (5.6x6.5 mm) connector
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-5-1, $q = 40$ °C 16 A
Country of Origin:	Bulgaria (BG)
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
Dimension Diagram:	FPTE307845
Drop-out Voltage in % of U_c:	Approximate 40 ... 65 %
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471522302809
ETIM 4:	EC001079 - Capacitor magnet contactor
ETIM 5:	EC001079 - Capacitor magnet contactor
ETIM 6:	EC001079 - Capacitor contactor
Electrical Durability:	U _e =< 440 V 250000 cycle U _e = 500 ... 690 V 100000 cycle
Environmental Information:	1SBD250123E1000
GOST Certificate:	GOST_POCCFRME77B07175
IT 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:	UA30-30-10RA 220-230V 50Hz / 230-240V 60Hz Contactor
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 820 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 340 A
Maximum Electrical Switching Frequency:	240 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Maximum Peak Current:	U _e = 500 V For Capacitor Switching Î No limit kV·A
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
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 8 ... 21 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Order Multiple:	1 piece
Package Level 1 EAN:	3471522302809
Package Level 1 Gross Weight:	0.81 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:	24 piece
Power Loss:	at Rated Operating Conditions per Pole 0.1 W
Product Main Type:	UA30RA
Product Name:	Block Contactor
Product Net Depth:	141 mm

Product Net Height:	130 mm
Product Net Weight:	0.810 kg
Product Net Width:	54 mm
Rated Breaking Capacity acc. to IEC 60947-5-1:	10 x Ie 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 UL/CSA 600 V
Rated Making Capacity acc. to IEC 60947-5-1:	10 x Ie 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 32 kvar (690 V) 55 °C, 50 / 60 Hz 45 kvar (690 V) 40 °C, 50 / 60 Hz 45 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 25 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 34 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 34 kvar (440 V) 70 °C, 50 / 60 Hz 20.5 kvar (440 V) 55 °C, 50 / 60 Hz 30 kvar (440 V) 40 °C, 50 / 60 Hz 32 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 19.5 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 27.5 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 30 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 11 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 16 kvar (230 / 240 V) 40 °C, 50 / 60 Hz 16 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 400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 65 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 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:	UA30-30-10RA 220-230V 50Hz / 230-240V 60Hz Contactor
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 200 A
Terminal Type:	Screw Terminals
UNSPSC:	39121529

