

PRODUCT-DETAILS

# UA30-30-10RA 110V 50Hz / 110-120V 60Hz UA30-30-10RA 110V 50Hz / 110-120V 60Hz Contactor

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## General Information

Extended Product Type	UA30-30-10RA 110V 50Hz / 110-120V 60Hz
Product ID	1SBL281024R8410
EAN	3471522302847
Catalog Description	UA30-30-10RA 110V 50Hz / 110-120V 60Hz Contactor

Long Description	<p>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 <math>\leq 50</math> V) before being re-energized when the contactors are making. Their electrical durability is 250 000 operating cycles for <math>U_e &lt; 500</math> V and 100 000 operating cycles for <math>500</math> V <math>\leq U_e \leq 690</math> 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.</p>
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## Classifications

Object Classification Code	Q
ETIM 4	EC001079 - Capacitor magnet contactor
ETIM 5	EC001079 - Capacitor magnet contactor

ETIM 6	EC001079 - Capacitor contactor
ETIM 7	EC001079 - Capacitor contactor
UNSPSC	39121529

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	135 mm
Package Level 1 Depth / Length	155 mm
Package Level 1 Height	63 mm
Package Level 1 Gross Weight	0.81 kg
Package Level 1 EAN	3471522302847
Package Level 2 Units	box 24 piece
Package Level 2 Gross Weight	19.44 kg

## Certificates and Declarations (Document Number)

CB Certificate	CB_FR3448_60016915-509739C
CCC Certificate	CCC_2004010304138316
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CE	1SBD250805U1000
EAC Certificate	EAC_RU C-FR ME77 B02628
Environmental Information	1SBD250123E1000
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	1SBC101002M5501
RoHS Information	1SBD250805U1000

## Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air (Uc) -40 ... +70 °C Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... +55 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	3000 m
RoHS Status	Following EU Directive 2011/65/EU

## Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary	0

Contacts NC

Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f)	Supply Circuit 50 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-5-1, $q = 40\text{ }^{\circ}\text{C}$ 16 A
Rated Operational Power AC-6b ( $P_e$ )	(230 / 240 V) 40 $^{\circ}\text{C}$ , 50 / 60 Hz 16 KVR (230 / 240 V) 55 $^{\circ}\text{C}$ , 50 / 60 Hz 16 KVR (230 / 240 V) 70 $^{\circ}\text{C}$ , 50 / 60 Hz 11 KVR (400 / 415 V) 40 $^{\circ}\text{C}$ , 50 / 60 Hz 30 KVR (400 / 415 V) 70 $^{\circ}\text{C}$ , 50 / 60 Hz 19.5 KVR (400 / 415 V) 55 $^{\circ}\text{C}$ , 50 / 60 Hz 27.5 KVR (440 V) 40 $^{\circ}\text{C}$ , 50 / 60 Hz 32 KVR (440 V) 55 $^{\circ}\text{C}$ , 50 / 60 Hz 30 KVR (440 V) 70 $^{\circ}\text{C}$ , 50 / 60 Hz 20.5 KVR (500 / 550 V), 40 $^{\circ}\text{C}$ , 50 / 60 Hz 34 KVR (500 / 550 V) 55 $^{\circ}\text{C}$ , 50 / 60 Hz 34 KVR (500 / 550 V) 70 $^{\circ}\text{C}$ , 50 / 60 Hz 25 KVR (690 V) 40 $^{\circ}\text{C}$ , 50 / 60 Hz 45 KVR (690 V) 55 $^{\circ}\text{C}$ , 50 / 60 Hz 45 KVR (690 V) 70 $^{\circ}\text{C}$ , 50 / 60 Hz 32 KVR
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
Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 200 A
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
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 Insulation Voltage ( $U_i$ )	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	8 kV
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 110 V 60 Hz 110 ... 120 V
Coil Consumption	Average Holding Value 50 / 60 Hz 12.3 V·A Average Holding Value 50 Hz 12.3 V·A Average Holding Value 60 Hz 12.3 V·A Average Pull-in Value 50 Hz 120 V·A Average Pull-in Value 60 Hz 140 V·A
Operate Time	Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 8 ... 21 ms
Connecting Capacity Main Circuit	Flexible with Cable End 2.5 ... 4 m <sup>2</sup> Rigid Cable 2.5 ... 6 m <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 m <sup>2</sup>
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 5 (+,-) pozidriv 2 screws with 2x (5.6x6.5 mm) connector
Terminal Type	Screw Terminals

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## Dimensions

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Product Net Width	54 mm
Product Net Depth / Length	141 mm
Product Net Height	130 mm
Product Net Weight	0.81 kg

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## Popular Downloads

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Data Sheet, Technical Information	1SBC101140C0203
Instructions and Manuals	1SBC101002M5501
Dimension Diagram	FPTE307845

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## Ordering

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Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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## Categories

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Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → UA and UA..RA Contactors