

## PRODUCT-DETAILS

# UA30-30-10RA 400-415V 50Hz / 480V 60Hz UA30-30-10RA 400-415V 50Hz / 480V 60Hz Contactor



## General Information

|                       |                                                  |
|-----------------------|--------------------------------------------------|
| Extended Product Type | UA30-30-10RA 400-415V 50Hz / 480V 60Hz           |
| Product ID            | 1SBL281024R5110                                  |
| EAN                   | 3471522302519                                    |
| Catalog Description   | UA30-30-10RA 400-415V 50Hz / 480V 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  $\leq 50$  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.

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

## Popular Downloads

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

## Dimensions

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

## Technical

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO                         | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of Main Contacts NC                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of Auxiliary Contacts NO                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of Auxiliary Contacts NC                    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rated Operational Voltage                          | Auxiliary Circuit 690 V<br>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, $\theta = 40\text{ °C}$ 16 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Power AC-6b ( $P_e$ )            | (230 / 240 V) 40 °C, 50 / 60 Hz 16 kvar<br>(230 / 240 V) 55 °C, 50 / 60 Hz 16 kvar<br>(230 / 240 V) 70 °C, 50 / 60 Hz 11 kvar<br>(400 / 415 V) 40 °C, 50 / 60 Hz 30 kvar<br>(400 / 415 V) 70 °C, 50 / 60 Hz 19.5 kvar<br>(400 / 415 V) 55 °C, 50 / 60 Hz 27.5 kvar<br>(440 V) 40 °C, 50 / 60 Hz 32 kvar<br>(440 V) 55 °C, 50 / 60 Hz 30 kvar<br>(440 V) 70 °C, 50 / 60 Hz 20.5 kvar<br>(500 / 550 V), 40 °C, 50 / 60 Hz 34 kvar<br>(500 / 550 V) 55 °C, 50 / 60 Hz 34 kvar<br>(500 / 550 V) 70 °C, 50 / 60 Hz 25 kvar<br>(690 V) 40 °C, 50 / 60 Hz 45 kvar<br>(690 V) 55 °C, 50 / 60 Hz 45 kvar<br>(690 V) 70 °C, 50 / 60 Hz 32 kvar |
| Rated Operational Current AC-15 ( $I_\phi$ )       | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Short-Circuit Protective Devices                   | Auxiliary Circuit - gG Type Fuses 10 A<br>gG Type Fuses 200 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum Breaking Capacity                          | $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100\text{ A}$ ) at 440 V 820 A<br>$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100\text{ A}$ ) at 690 V 340 A                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum Electrical Switching Frequency             | 240 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Current                          | (24 V) 6 / 144 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                                                              |                                                                                                                                                            |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC-13 ( $I_g$ )                                              | (48 V) 2.8 / 134 A<br>(72 V) 2 / 144 A<br>(125 V) 1.1 / 138 A<br>(250 V) 0.55 / 138 A                                                                      |
| Rated Insulation Voltage ( $U_i$ )                           | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V                                                                                  |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )                | 8 kV                                                                                                                                                       |
| Rated Control Circuit Voltage ( $U_c$ )                      | 50 Hz 400 ... 415 V<br>60 Hz 480 V                                                                                                                         |
| Coil Consumption                                             | Average Holding Value 50 Hz 12.3 V·A<br>Average Holding Value 60 Hz 12.3 V·A<br>Average Pull-in Value 50 Hz 120 V·A<br>Average Pull-in Value 60 Hz 140 V·A |
| Operate Time                                                 | Between Coil De-energization and NO Contact Opening 4 ... 11 ms<br>Between Coil Energization and NO Contact Closing 8 ... 21 ms                            |
| Connecting Capacity Main Circuit                             | Flexible with Cable End 2.5 ... 4 mm <sup>2</sup><br>Rigid Cable 2.5 ... 6 mm <sup>2</sup>                                                                 |
| Connecting Capacity Auxiliary Circuit                        | Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Cable 1 ... 4 mm <sup>2</sup>                                                                |
| Degree of Protection                                         | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil 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                                                                                                                                            |

## Environmental

|                                        |                                                                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air (0.85 ... 1.1 $U_c$ ) -40 ... +55 °C<br>Near Contactor for Operation in Free Air ( $U_c$ ) -40 ... +70 °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                                                                                                                                                                   |

## Certificates and Declarations (Document Number)

|                                 |                                            |
|---------------------------------|--------------------------------------------|
| CB Certificate                  | CB_FR3448_60016915-509739C                 |
| CCC Certificate                 | CCC_2004010304138316                       |
| CQC Certificate                 | CQC2003010304060095<br>CQC2007010309256050 |
| CSA Certificate                 | CSA_1033838_LR056745                       |
| Declaration of Conformity - CCC | 2020980304001610<br>2020980304001216       |
| Declaration of Conformity - CE  | 1SBD250805U1000                            |
| Environmental Information       | 1SBD250123E1000                            |
| GOST Certificate                | GOST_POCCFRME77B07175                      |
| Instructions and Manuals        | 1SBC101002M5501                            |
| RoHS Information                | 1SBD250805U1000                            |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 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            | 3471522302519 |
| Package Level 2 Units          | box 24 piece  |
| Package Level 2 Gross Weight   | 19.44 kg      |

### 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        |
| eClass                     | V11.0 : 27371006                      |
| UNSPSC                     | 39121529                              |

### Categories

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

