



PRODUCT-DETAILS

UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz

UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz Contactor



General Information

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Extended Product Type | UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz           |
| Product ID            | 1SBL351024R8000                                      |
| EAN                   | 3471522303806                                        |
| Catalog Description   | UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz Contactor |

Long Description

The UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz is a 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: 3 main poles - 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 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |
| Dimension Diagram                 | FPTE307844      |

| Dimensions                 |          |
|----------------------------|----------|
| Product Net Width          | 70 mm    |
| Product Net Depth / Length | 140.4 mm |
| Product Net Height         | 150 mm   |
| Product Net Weight         | 1.35 kg  |

| Technical                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Main Contacts NC                      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Auxiliary Contacts NO                 | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Auxiliary Contacts NC                 | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standards                                       | IEC/EN 60947-1, IEC/EN 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rated Operational Voltage                       | Main Circuit 690 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Frequency (f)                             | Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Operational Power AC-6b (P <sub>e</sub> ) | (230 / 240 V) 40 °C, 50 / 60 Hz 25 kvar<br>(230 / 240 V) 55 °C, 50 / 60 Hz 24 kvar<br>(230 / 240 V) 70 °C, 50 / 60 Hz 20 kvar<br>(400 / 415 V) 40 °C, 50 / 60 Hz 40 kvar<br>(400 / 415 V) 70 °C, 50 / 60 Hz 35 kvar<br>(400 / 415 V) 55 °C, 50 / 60 Hz 40 kvar<br>(440 V) 40 °C, 50 / 60 Hz 50 kvar<br>(440 V) 55 °C, 50 / 60 Hz 43 kvar<br>(440 V) 70 °C, 50 / 60 Hz 37 kvar<br>(500 / 550 V), 40 °C, 50 / 60 Hz 55 kvar<br>(500 / 550 V) 55 °C, 50 / 60 Hz 50 kvar<br>(500 / 550 V) 70 °C, 50 / 60 Hz 46 kvar<br>(690 V) 40 °C, 50 / 60 Hz 72 kvar<br>(690 V) 55 °C, 50 / 60 Hz 65 kvar<br>(690 V) 70 °C, 50 / 60 Hz 60 kvar |
| Short-Circuit Protective Devices                | gG Type Fuses 200 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum Breaking Capacity                       | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 1300 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 630 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum Electrical Switching Frequency          | 240 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                              |                                                                                                                                                                                                   |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Insulation Voltage (U <sub>i</sub> )                   | acc. to IEC 60947-4-1 1000 V<br>acc. to UL/CSA 600 V                                                                                                                                              |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )          | 8 kV                                                                                                                                                                                              |
| Rated Control Circuit Voltage (U <sub>c</sub> )              | 50 Hz 220 ... 230 V<br>60 Hz 230 ... 240 V                                                                                                                                                        |
| Coil Consumption                                             | Average Holding Value 50 / 60 Hz 18 V·A<br>Average Holding Value 50 Hz 18 V·A<br>Average Holding Value 60 Hz 18 V·A<br>Average Pull-in Value 50 Hz 180 V·A<br>Average Pull-in Value 60 Hz 210 V·A |
| Operate Time                                                 | Between Coil De-energization and NO Contact Opening 4 ... 11 ms<br>Between Coil Energization and NO Contact Closing 8 ... 27 ms                                                                   |
| Mounting on DIN Rail                                         | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715                                                                                      |
| Mounting by Screws (not supplied)                            | 2 x M6 screws placed diagonally                                                                                                                                                                   |
| Connecting Capacity Main Circuit                             | Flexible with Cable End 6 ... 10 mm <sup>2</sup><br>Rigid Cable 6 ... 16 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<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10                                                                      |
| Connecting Terminals (delivered in open position) Main Poles | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 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 <sub>c</sub> ) -40 ... +55 °C<br>Near Contactor for Operation in Free Air (U <sub>c</sub> ) -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 | Without Derating 3000 m                                                                                                                                                                                             |

## Material Compliance

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                            |
| REACH Declaration                           | 2CMT2021-006202                                            |
| RoHS Information                            | 2CMT2021-006277                                            |
| RoHS Status                                 | Following EU Directive 2011/65/EU                          |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006525                                            |
| WEEE B2C / B2B                              | Business To Business                                       |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Certificates and Declarations

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| CB Certificate  | CB_CN-58853                                                       |
| CCC Certificate | CCC_2018010304128277                                              |
| CQC Certificate | CQC2018010304128277<br>CQC2018010304128276<br>CQC2008010304290409 |

|                                     |                                                          |
|-------------------------------------|----------------------------------------------------------|
| Declaration of<br>Conformity - CCC  | 2020980304001620<br>2020980304001623<br>2020980304001215 |
| Declaration of<br>Conformity - CE   | 1SBD250805U1000                                          |
| Declaration of<br>Conformity - UKCA | 1SBD250822U1000                                          |
| GOST Certificate                    | GOST_POCCFRME77B07175                                    |
| UL Certificate                      | UL-US-L312527-1101-21215991-6<br>UL-CA-2139468-4         |
| UL Listing Card                     | UL_E312527                                               |

Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 160 mm        |
| Package Level 1 Depth /<br>Length | 200 mm        |
| Package Level 1 Height            | 85 mm         |
| Package Level 1 Gross<br>Weight   | 1.35 kg       |
| Package Level 1 EAN               | 3471522303806 |
| Package Level 2 Units             | box 63 piece  |
| Package Level 2 Width             | 245 mm        |
| Package Level 2 Depth /<br>Length | 75 mm         |
| Package Level 2 Height            | 153 mm        |
| Package Level 2 Gross<br>Weight   | 85.05 kg      |

Classifications

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Object Classification<br>Code         | Q                                     |
| ETIM 4                                | EC001079 - Capacitor magnet contactor |
| ETIM 5                                | EC001079 - Capacitor magnet contactor |
| ETIM 6                                | EC001079 - Capacitor contactor        |
| ETIM 7                                | EC001079 - Capacitor contactor        |
| ETIM 8                                | EC001079 - Capacitor contactor        |
| eClass                                | V11.0 : 27371006                      |
| UNSPSC                                | 39121529                              |
| IDEA Granular Category<br>Code (IGCC) | 4756 >> Capacitor magnet contactor    |
| E-Number (Finland)                    | 3709166                               |

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## Categories

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Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → UA and UA..RA Contactors → UA50RA

