



PRODUCT-DETAILS

UA50-30-00 400-415V 50Hz / 415-440V 60Hz

UA50-30-00 400-415V 50Hz / 415-440V 60Hz  
Contactor



| General Information   |   |
|-----------------------|---|
| Extended Product Type | UA50-30-00 400-415V 50Hz / 415-440V 60Hz  |
| Product ID            | 1SBL351022R8600   |
| EAN                   | 3471522084866   |
| Catalog Description   | UA50-30-00 400-415V 50Hz / 415-440V 60Hz Contactor  |
| Long Description      | <p>The UA50-30-00 400-415V 50Hz / 415-440V 60Hz is a 3-pole contactors for capacitor switching, can be used for the switching of capacitor banks whose inrush current peaks are less than or equal to 100 times nominal rms current. The table below gives the permissible powers according to operational voltage and temperature close to the contactor. It also specifies the maximum peak current <math>\hat{I}</math> values accepted by the contactor. The capacitors must be discharged (maximum residual voltage at terminals <math>\leq 50</math> V) before being re-energized when the contactors are making. In these conditions, electrical durability of contactors is equal to 100 000 operating cycles. The UA.. 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.</p> |

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

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC101140C0203 |
| Instructions and Manuals          | FPTC407700P0003 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

| Dimensions                 |         |
|----------------------------|---------|
| Product Net Width          | 70 mm   |
| Product Net Depth / Length | 108 mm  |
| Product Net Height         | 110 mm  |
| Product Net Weight         | 1.16 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 20 kvar<br>(230 / 240 V) 55 °C, 50 / 60 Hz 20 kvar<br>(230 / 240 V) 70 °C, 50 / 60 Hz 19 kvar<br>(400 / 415 V) 40 °C, 50 / 60 Hz 33 kvar<br>(400 / 415 V) 70 °C, 50 / 60 Hz 32 kvar<br>(400 / 415 V) 55 °C, 50 / 60 Hz 33 kvar<br>(440 V) 40 °C, 50 / 60 Hz 36 kvar<br>(440 V) 55 °C, 50 / 60 Hz 36 kvar<br>(440 V) 70 °C, 50 / 60 Hz 35 kvar<br>(500 / 550 V), 40 °C, 50 / 60 Hz 40 kvar<br>(500 / 550 V) 55 °C, 50 / 60 Hz 40 kvar<br>(500 / 550 V) 70 °C, 50 / 60 Hz 40 kvar<br>(690 V) 40 °C, 50 / 60 Hz 55 kvar<br>(690 V) 55 °C, 50 / 60 Hz 55 kvar<br>(690 V) 70 °C, 50 / 60 Hz 52 kvar |
| 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  |
| 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   |
| Mechanical Durability                               | 10 million   |
| Maximum Mechanical Switching Frequency              | 3600 cycles per hour   |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 50 Hz 400 ... 415 V<br>60 Hz 415 ... 440 V   |

Coil Consumption

Average Holding Value 50 / 60 Hz 18 V·A  
 Average Pull-in Value 50 Hz 180 V·A  
 Average Pull-in Value 60 Hz 180 V·A  
 Holding at Max. Rated Control Circuit Voltage 50 Hz 18 V·A  
 Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 W  
 Holding at Max. Rated Control Circuit Voltage 60 Hz 18 V·A  
 Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 W  
 Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A  
 Pull-in at Max. Rated Control Circuit Voltage 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 ... 16 mm <sup>2</sup><br>Rigid Cable 6 ... 25 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 Uc) -40 ... +55 °C<br>Near Contactor for Operation in Free Air (Uc) -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-58854                                  |
| CCC Certificate                 | CCC_2018010304128276<br>CCC_2008010304290409 |
| CQC Certificate                 | CQC2018010304128276<br>CQC2008010304290409   |
| Declaration of Conformity - CCC | 2020980304001623<br>2020980304001215         |
| Declaration of 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             | 140 mm        |
| Package Level 1 Depth /<br>Length | 146 mm        |
| Package Level 1 Height            | 96 mm         |
| Package Level 1 Gross<br>Weight   | 1.16 kg       |
| Package Level 1 EAN               | 3471522084866 |
| Package Level 2 Units             | box 20 piece  |
| Package Level 2 Width             | 503 mm        |
| Package Level 2 Depth /<br>Length | 153 mm        |
| Package Level 2 Height            | 307 mm        |
| Package Level 2 Gross<br>Weight   | 23.2 kg       |
| Package Level 3 Units             | 160 piece     |

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                              |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → UA and UA..RA Contactors → UA50

