PRODUCT-DETAILS

# UA16-30-10 230-240V 50Hz / 240-260V 60Hz

UA16-30-10 230-240V 50Hz / 240-260V 60Hz

Contactor



## General Information

| | |
|---|---|
| Extended Product Type | UA16-30-10 230-240V 50Hz / 240-260V 60Hz |
| Product ID | 1SBL181022R8810 |
| EAN | 3471522254887 |
| Catalog Description | UA16-30-10 230-240V 50Hz / 240-260V 60Hz Contactor |
| Long Description | UA16 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 Î values accepted by the contactor. The capacitors must be discharged (maximum residual voltage at terminals ≤ 50 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 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

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

## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical | 1SBC101140C0203 |

| Information | |
|---|---|
| Instructions and Manuals | FPTC407721P0001 |

## Dimensions

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| Product Net Width | 44 mm |
| Product Net Depth / Length | 74 mm |
| Product Net Height | 74 mm |
| Product Net Weight | 0.34 kg |

## Technical

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| 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 | 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 °C 16 A |
| Rated Operational Power AC-6b ($P_e$) | (230 / 240 V) 40 °C, 50 / 60 Hz 7.5 kvar<br>(230 / 240 V) 55 °C, 50 / 60 Hz 6.7 kvar<br>(230 / 240 V) 70 °C, 50 / 60 Hz 6 kvar<br>(400 / 415 V) 40 °C, 50 / 60 Hz 12.5 kvar<br>(400 / 415 V) 70 °C, 50 / 60 Hz 10 kvar<br>(400 / 415 V) 55 °C, 50 / 60 Hz 11.7 kvar<br>(440 V) 40 °C, 50 / 60 Hz 13.7 kvar<br>(440 V) 55 °C, 50 / 60 Hz 13 kvar<br>(440 V) 70 °C, 50 / 60 Hz 11 kvar<br>(500 / 550 V), 40 °C, 50 / 60 Hz 15.5 kvar<br>(500 / 550 V) 55 °C, 50 / 60 Hz 14.7 kvar<br>(500 / 550 V) 70 °C, 50 / 60 Hz 12.5 kvar<br>(690 V) 40 °C, 50 / 60 Hz 21.5 kvar<br>(690 V) 55 °C, 50 / 60 Hz 20 kvar<br>(690 V) 70 °C, 50 / 60 Hz 17 kvar |
| Rated Operational Current AC-15 ($I_e$) | (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 1.5 ... 1.8 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 250 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 90 A |
| Rated Operational Current DC-13 ($I_e$) | (24 V) 6 / 144 A<br>(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 |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 8 kV |

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|---|---|
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage ($U_c$) | 50 Hz 230 ... 240 V<br>60 Hz 240 ... 260 V |
| Coil Consumption | Average Holding Value 50 / 60 Hz 8 V·A<br>Average Pull-in Value 50 Hz 74 V·A<br>Average Pull-in Value 60 Hz 70 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 70 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 80 V·A |
| Operate Time | Between Coil De-energization and NO Contact Opening 4 ... 11 ms<br>Between Coil Energization and NO Contact Closing 10 ... 26 ms |
| Connecting Capacity Main Circuit | Flexible with Cable End 0.75 ... 2.5 mm²<br>Rigid Cable 1 ... 4 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Cable End 0.75 ... 2.5 mm²<br>Rigid Cable 1 ... 4 mm² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 |
| Connecting Terminals (delivered in open position) Main Poles | M 3.5 (+,-) pozidriv 2 screws with cable clamp |
| Terminal Type | Screw Terminals |

## Environmental

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|---|---|
| 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 | 3000 m |
| RoHS Status | Following EU Directive 2011/65/EU |

## Certificates and Declarations (Document Number)

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|---|---|
| CB Certificate | CB_CN44755 |
| CCC Certificate | CCC_2007010304257961 |
| CQC Certificate | CQC2018010304059153<br>CQC2007010304257961 |
| Declaration of Conformity - CCC | 2020980304001618<br>2020980304001218 |
| Declaration of Conformity - CE | 1SBD250805U1000 |
| Environmental Information | 1SBD250026E1000 |
| GOST Certificate | GOST_POCCFRME77B07175 |
| Instructions and Manuals | FPTC407721P0001 |
| RoHS Information | 1SBD250805U1000 |
| UL Certificate | UL_20160205-E312527-10-2 |
| UL Listing Card | UL_E312527 |

## Container Information

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|---|---|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 78 mm |
| Package Level 1 Depth / | 76 mm |

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|---|---|
| Length | |
| Package Level 1 Height | 47 mm |
| Package Level 1 Gross Weight | 0.34 kg |
| Package Level 1 EAN | 3471522254887 |
| Package Level 2 Units | box 63 piece |
| Package Level 2 Width | 300 mm |
| Package Level 2 Depth / Length | 245 mm |
| Package Level 2 Height | 308 mm |
| Package Level 2 Gross Weight | 21.42 kg |
| Package Level 3 Units | 1220 piece |

## Classifications

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|---|---|
| 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

