# A45-22-00 220-230V 50Hz / 230-



240V 60Hz

A45-22-00 220-230V 50Hz / 230-240V 60Hz Contactor



## **General Information**

| Extended Product Type | A45-22-00 220-230V 50Hz / 230-240V 60Hz  |
|-----------------------|--|
| Product ID            | 1SBL331501R8000  |
| EAN                   | 3471522080806  |
| Catalog Description   | A45-22-00 220-230V 50Hz / 230-240V 60Hz Contactor  |
| Long Description      | A45 4-pole contactors are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces) and generally for controlling power circuits up to 690 V AC and 440 V DC. The contactors can also be used for many other applications such lighting The A series 4-pole contactors are of the block type design Main poles and auxiliary contact blocks: 2 N.O. + 2 N.C. main poles, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available. |

## Classifications

| Object Classification Code | Q   |  |
|----------------------------|---|--|
| ETIM 4                     | EC000066 - Magnet contactor, AC-switching |  |
| ETIM 5                     | EC000066 - Magnet contactor, AC-switching |  |
| ETIM 6                     | EC000066 - Power contactor, AC switching  |  |
| ETIM 7                     | EC000066 - Power contactor, AC switching  |  |
| UNSPSC                     | 39121529                                  |  |

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## **Container Information**

| Package Level 1 Units          | 1 piece       |
|--------------------------------|---------------|
| Package Level 1 Width          | 142 mm        |
| Package Level 1 Depth / Length | 190 mm        |
| Package Level 1 Height         | 136 mm        |
| Package Level 1 Gross Weight   | 1.4 kg        |
| Package Level 1 EAN            | 3471522080806 |
| Package Level 2 Units          | 8 piece       |
| Package Level 2 Gross Weight   | 11.2 kg       |

## Certificates and Declarations (Document Number)

| BV Certificate  | BV_2634H07559E0      |
|-----------------|----------------------|
| CB Certificate  | CB_CN45324           |
| CCC Certificate | CCC_2018010304129267 |
| CSA Certificate | CSA_1033838_LR056745 |

## A45-22-00 220-230V 50Hz / 230-240V 60Hz

| Declaration of Conformity - CE | 1SBD250802U1000          |
|--------------------------------|--------------------------|
| EAC Certificate                | EAC_RU C-FR ME77 B01010  |
| Environmental Information      | 1SBD250007E1003          |
| GOST Certificate               | GOST_POCCFRME77B07175    |
| Instructions and Manuals       | FPTC407701P0003          |
| LR Certificate                 | LRS_9830011E4            |
| RoHS Information               | 1SBD250802U1000          |
| UL Certificate                 | UL_20120830-E312527-10-1 |
| UL Listing Card                | UL_E312527               |

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## Environmental

| Ambient Air Temperature                    | Close to Contactor for Storage -60 +80 °C<br>Near Contactor for Operation in Free Air (Uc) -40 +70 °C<br>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   |  |
| Resistance to Shock acc. to IEC 60068-2-27 | Shock Direction: A 20 K40  |  |
|  | Shock Direction: B2 15 K40<br>Shock Direction: C1 20 K40   |  |
|  | Shock Direction: C2 20 K40   |  |
|  | Closed, Shock Direction: B1 10 K40   |  |
|  | Open, Shock Direction: B1 5 K40  |  |
| RoHS Status                                | Following EU Directive 2011/65/EU  |  |

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## Technical

| Number of Main Contacts NO                          | 2   |
|---|---|
| Number of Main Contacts NC                          | 2   |
| Number of Auxiliary Contacts NO                     | 0   |
| Number of Auxiliary Contacts NC                     | 0   |
| Standards   | Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1, EN 60 947-1 and amendment 2 to IEC 947-4-1 |
| Rated Operational Voltage                           | Main Circuit 1000 V   |
| Conventional Free-air Thermal Current $(I_{th})$    | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 100 A  |
| Rated Operational Current AC-1 (I <sub>e</sub> )    | (690 V) 40 °C 70 A<br>(690 V) 55 °C 60 A<br>(690 V) 70 °C 50 A  |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1  | 8 x le AC-3   |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1    | 10 x le AC-3  |
| Short-Circuit Protective Devices                    | gG Type Fuses 80 A  |
| Maximum Breaking Capacity                           | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 900 A<br>cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 490 A  |
| Maximum Electrical Switching Frequency              | AC-1 600 cycles per hour<br>AC-2 / AC-4 150 cycles per hour<br>AC-3 600 cycles per hour   |
| Rated Insulation Voltage (U <sub>i</sub> )          | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 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 220 230 V<br>60 Hz 230 240 V  |

| Coil Consumption                                       | Holding at Max. Rated Control Circuit Voltage 50 Hz 18 5.5 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 18 5.5 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A<br>Average Holding Value 50 / 60 Hz 18 5.5 V·A<br>Average Pull-in Value 50 Hz 190 V·A<br>Average Pull-in Value 60 Hz 180 V·A |  |
|--|---|--|
| Operate Time   | Between Coil De-energization and NC Contact Closing 7 14 ms<br>Between Coil De-energization and NO Contact Opening 4 11 ms<br>Between Coil Energization and NC Contact Opening 7 22 ms<br>Between Coil Energization and NO Contact Closing 8 27 ms  |  |
| Connecting Capacity Main Circuit                       | Flexible with Cable End 6 16 m²<br>Rigid Cable 6 25 m²  |  |
| Connecting Capacity Auxiliary Circuit                  | Flexible with Cable End 0.75 2.5 m²<br>Rigid Cable 1 4 m²   |  |
| Degree of Protection                                   | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20  |  |
| Connecting Terminals (delivered in open position Poles | on) Main M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector   |  |
| Terminal Type  | Screw Terminals   |  |

## Dimensions

| Product Net Width          | 92 mm    |  |
|----------------------------|----------|--|
| Product Net Depth / Length | 119.5 mm |  |
| Product Net Height         | 110 mm   |  |
| Product Net Weight         | 1.4 kg   |  |

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## Popular Downloads

| Data Sheet, Technical Information | 1SBC100122C0202_Ch02 |
|-----------------------------------|----------------------|
| Instructions and Manuals          | FPTC407701P0003      |

## Ordering

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

## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Block Contactors





