

PRODUCT-DETAILS

# AE75-30-00 75V DC

## AE75-30-00 75V DC Contactor



### General Information

|                       |                             |
|-----------------------|-----------------------------|
| Extended Product Type | AE75-30-00 75V DC           |
| Product ID            | 1SBL419001R8500             |
| EAN                   | 3471522108852               |
| Catalog Description   | AE75-30-00 75V DC Contactor |

|                  |  |
|------------------|--|
| Long Description | <p>AE75 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC / 1000 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The AE... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, front and side-mounted add-on auxiliary contact blocks - Control circuit: DC operated with standard double-winding DC coils (with add-on factory-mounted lagging contact for insertion of the "holding" winding) - 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 | 1SBC100122C0202_Ch02 |
| Instructions and Manuals          | FPTC407700P0003      |

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 82 mm  |
| Product Net Depth / Length | 108 mm |
| Product Net Height         | 110 mm |
| Product Net Weight         | 1.2 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  |
| Rated Operational Voltage                          | Main Circuit 1000 V  |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 125 A  |
| Rated Operational Current AC-1 ( $I_e$ )           | (690 V) $40^\circ\text{C}$ 125<br>(690 V) $55^\circ\text{C}$ 105<br>(690 V) $70^\circ\text{C}$ 85  |
| Rated Operational Current AC-3 ( $I_e$ )           | (415 V) $55^\circ\text{C}$ 72 A<br>(440 V) $55^\circ\text{C}$ 70 A<br>(500 V) $55^\circ\text{C}$ 65 A<br>(690 V) $55^\circ\text{C}$ 46 A<br>(1000 V) $55^\circ\text{C}$ 28 A<br>(380 / 400 V) $55^\circ\text{C}$ 75 A<br>(220 / 230 / 240 V) $55^\circ\text{C}$ 75 |
| Rated Operational Power AC-3 ( $P_e$ )             | (415 V) 40 kW<br>(440 V) 40 kW<br>(500 V) 45 kW<br>(690 V) 40 kW<br>(380 / 400 V) 37 kW<br>(220 / 230 / 240 V) 22 kW   |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x $I_e$ AC-3   |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1   | 10 x $I_e$ AC-3  |
| Short-Circuit Protective Devices                   | gG Type Fuses 160 A  |
| Maximum Breaking Capacity                          | $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 1300 A<br>$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 630 A  |
| Maximum Electrical Switching Frequency             | (AC-1) 300 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 300 cycles per hour  |
| 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   |
| Mechanical Durability                              | 5 million  |
| Maximum Mechanical Switching Frequency             | 3600 cycles per hour   |
| Rated Control Circuit Voltage ( $U_c$ )            | DC Operation 75 V  |
| Coil Consumption                                   | Average Holding Value, from Warm State 4 W<br>Average Pull-in Value, from Cold State 200 W<br>Pull-in at Max. Rated Control Circuit Voltage DC 200 W   |
| Operate Time                                       | Between Coil De-energization and NO Contact Opening 5 ... 15 ms<br>Between Coil Energization and NO Contact Closing 30 ... 30 ms   |

|  |  |
|--|--|
| Connecting Capacity<br>Main Circuit                                | Flexible with Cable End 6 ... 16 mm <sup>2</sup><br>Rigid Cable 6 ... 25 mm <sup>2</sup>                                     |
| Connecting Capacity<br>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<br>(delivered in open<br>position) Main Poles | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector   |
| Terminal Type  | Screw Terminals  |

## Technical UL/CSA

|                              |                  |
|------------------------------|------------------|
| General Use Rating<br>UL/CSA | (600 V AC) 105 A |
|------------------------------|------------------|

## Environmental

|   |  |
|---|--|
| Ambient Air<br>Temperature                    | Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (Uc) -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
| Climatic Withstand                            | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II  |
| Maximum Operating<br>Altitude Permissible     | Without Derating 3000 m  |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | Closed, Shock Direction: B1 10 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: A 20 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 20 g<br>Shock Direction: C2 20 g   |
| RoHS Status                                   | Following EU Directive 2011/65/EU  |

## Certificates and Declarations (Document Number)

|                                    |                          |
|------------------------------------|--------------------------|
| CB Certificate                     | CB_CN45323               |
| CCC Certificate                    | CCC_2018010304129269     |
| CQC Certificate                    | CQC2018010304129269      |
| CSA Certificate                    | CSA_1033838_LR056745     |
| Declaration of<br>Conformity - CCC | 2020980304001621         |
| Declaration of<br>Conformity - CE  | 1SBD250804U1000          |
| Environmental<br>Information       | 1SBD250019E1003          |
| GOST Certificate                   | GOST_POCCFRME77B07175    |
| Instructions and<br>Manuals        | FPTC407700P0003          |
| LOVAG Certificate                  | LOVAG_FR01007            |
| RMRS Certificate                   | RMRS_0507015250          |
| RoHS Information                   | 1SBD250804U1000          |
| UL Certificate                     | UL_20120830-E312527-10-1 |
| UL Listing Card                    | UL_E312527               |

## Container Information

|                                   |         |
|-----------------------------------|---------|
| Package Level 1 Units             | 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 Weight   | 1.2 kg        |
| Package Level 1 EAN            | 3471522108852 |
| Package Level 2 Units          | box 20 piece  |
| Package Level 2 Width          | 503 mm        |
| Package Level 2 Depth / Length | 153 mm        |
| Package Level 2 Height         | 307 mm        |
| Package Level 2 Gross Weight   | 24 kg         |
| Package Level 3 Units          | 160 piece     |

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## 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  |
| eClass                     | V11.0 : 27371003                          |
| UNSPSC                     | 39121529                                  |

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## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

