

PRODUCT-DETAILS

A75-40-00 42V 50Hz / 42V 60Hz

A75-40-00 42V 50Hz / 42V 60Hz Contactor



General Information

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| Extended Product Type | A75-40-00 42V 50Hz / 42V 60Hz |
| Product ID | 1SBL411201R8200 |
| EAN | 3471522095824 |
| Catalog Description | A75-40-00 42V 50Hz / 42V 60Hz Contactor |
| Long Description | A75 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: 4 N.O. 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. |

Ordering

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

Popular Downloads

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

Dimensions

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| Product Net Width | 92 mm |
| Product Net Depth / Length | 119.5 mm |
| Product Net Height | 110 mm |
| Product Net Weight | 1.39 kg |

Technical

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| Number of Main Contacts NO | 4 |
| Number of Main Contacts NC | 0 |
| 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 $q = 40^\circ\text{C}$ 125 A |
| Rated Operational Current AC-1 (I_e) | (690 V) 40°C 125 (690 V) 55°C 105 (690 V) 70°C 85 |
| Rated Operational Current AC-3 (I_e) | (415 V) 55°C 72 A (440 V) 55°C 70 A (500 V) 55°C 65 A (690 V) 55°C 46 A (1000 V) 55°C 28 A (380 / 400 V) 55°C 75 A (220 / 230 / 240 V) 55°C 75 |
| Rated Operational Power AC-3 (P_e) | (415 V) 40 kW (440 V) 40 kW (500 V) 45 kW (690 V) 40 kW (380 / 400 V) 37 kW (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 $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 630 A |
| Maximum Electrical Switching Frequency | (AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 600 cycles per hour |
| Rated Insulation Voltage (U_i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U_{imp}) | 8 kV |
| Mechanical Durability | 10 million |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U_c) | 50 Hz 42 V 60 Hz 42 V |
| Coil Consumption | Average Holding Value 50 / 60 Hz 18 V·A |

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| | Average Pull-in Value 50 Hz 190 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 190 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 180 V·A |
| Operate Time | Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 8 ... 27 ms |
| Connecting Capacity Main Circuit | Flexible with Cable End 6 ... 16 mm ² Rigid Cable 6 ... 25 mm ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 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 |

Technical UL/CSA

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| General Use Rating UL/CSA | (600 V AC) 105 A |
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Environmental

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| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... 55 °C 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 |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: A 20 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations (Document Number)

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|------------------------------------|--|
| BV Certificate | BV_2634H07559E0 |
| CB Certificate | CB_CN45324 |
| CCC Certificate | CCC_2018010304129267 |
| CQC Certificate | CQC2018010304129267 CQC2008010309289461 |
| CSA Certificate | CSA_1033838_LR056745 |
| Declaration of Conformity - CCC | 2020980304001622 2020980304001226 |
| Declaration of Conformity - CE | 1SBD250802U1000 |
| DNV Certificate | DNV-GL_TAE00000TX |
| DNV GL Certificate | DNV-GL_TAE00000TX |
| EAC Certificate | EAC_RU C-FR ME77 B03599 |
| Environmental Information | 1SBD250010E1003 |
| Instructions and Manuals | FPTC407701P0003 |
| LOVAG Certificate | LOVAG_FR97017 |

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| LR Certificate | LRS_9830011E4 |
| RINA Certificate | RINA_ELE172319XG001 |
| RMRS Certificate | RMRS_0507015250 |
| RoHS Information | 1SBD250802U1000 |
| UL Certificate | UL_20120830-E312527-10-1 |
| UL Listing Card | UL_E312527 |

Container Information

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|--------------------------------|---------------|
| 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 | 1.39 kg |
| Package Level 1 EAN | 3471522095824 |
| Package Level 2 Units | box 8 piece |
| Package Level 2 Gross Weight | 11.12 kg |

Classifications

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|----------------------------|---|
| 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 |

Categories

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

