

PRODUCT-DETAILS

AS16-30-01-20 AS16-30-01-20 24V50/60HZ Contactor



| Extended Product Type | AS16-30-01-20 | |
|--|---|--|
| Product ID | 1SBL121001R2001 | |
| EAN | 3471523037205 | |
| Catalog Description | AS16-30-01-20 24V50/60HZ Contactor | |
| Long Description | AS16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. The AS series 1-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles, 1 built- in auxiliary contact, front-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: AC operated with laminated magnet circuit | |
| | - Accessories: a wide range of accessories is available. | |
| Ordering | | |
| Ordering Minimum Order Quantity | | |
| | - Accessories: a wide range of accessories is available. | |
| Minimum Order Quantity | - Accessories: a wide range of accessories is available. | |
| Minimum Order Quantity Customs Tariff Number Popular Downloads | - Accessories: a wide range of accessories is available. | |
| Minimum Order Quantity Customs Tariff Number | - Accessories: a wide range of accessories is available. 1 piece 85364900 | |

Drawing

| Dimensions | |
|-------------------------------|---------|
| Product Net Width | 45 mm |
| Product Net Depth / Length | 72.5 mm |
| Product Net Height | 68 mm |
| Product Net Weight | 0.22 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 | 1 |
| Standards | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N° 14 |
| Rated Operational Voltage | Auxiliary Circuit 690 V Main Circuit 690 V |
| Rated Frequency (f) | Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current (I _{th}) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 25 A acc. to IEC 60947-5-1, Θ = 40 °C 10 A |
| Rated Operational Current AC-1 (I_e) | (690 V) 40 °C 24 A (690 V) 60 °C 20 A (690 V) 70 °C 16 A |
| Rated Operational Current AC-3 (I _e) | (415 V) 60 °C 15.5 A (440 V) 60 °C 13.6 A (500 V) 60 °C 12.5 A (690 V) 60 °C 12.5 A (380 / 400 V) 60 °C 15.5 A (220 / 230 / 240 V) 60 °C 15.7 A |
| Rated Operational Power AC-3 (P _e) | (400 V) 7.5 kW (415 V) 7.5 kW (440 V) 7.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (220 / 230 / 240 V) 4 kW |
| Rated Operational Current AC-15 (I _e) | (500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A |
| Rated Short-time Withstand Current Low Voltage (I _{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 124 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 24 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 75 A for 0.1 s 140 A for 1 s 100 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 155 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 90 A |
| Maximum Electrical Switching Frequency | (AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour |

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| Rated Operational Current DC-13 (I _e) | (24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W |
|--|--|
| Rated Insulation Voltage (U _i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U _{imp}) | Auxiliary Circuit 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 24 V 60 Hz 24 V |
| Operate Time | Between Coil De-energization and NC Contact Closing 7 22 ms Between Coil De-energization and NO Contact Opening 5 19 ms Between Coil Energization and NC Contact Opening 6 18 ms Between Coil Energization and NO Contact Closing 9 24 ms |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 1/2x 0.75 4 mm ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 1/2x 0.75 2.5 mm ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 1/2x 0.75 2.5 mm ² |
| Wire Stripping Length | Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20 IP20 |
| Terminal Type | Screw Terminals |

| General Use Rating UL/CSA | (600 V AC) 20 A |
|------------------------------|--|
| Horsepower Rating UL/CSA | (120 V AC) Single Phase 3/4 hp (200 208 V AC) Three Phase 3 hp (220 240 V AC) Three Phase 5 hp (240 V AC) Single Phase 2 hp (440 480 V AC) Three Phase 10 hp (550 600 V AC) Three Phase 10 hp |
| Tightening Torque UL/CSA | Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 9 in·lb |

| Environmental | | |
|---|------------------------|--|
| Ambient Air Temperature | Close to Contactor wit | with Thermal O/L Relay -25 60 °C hout Thermal O/L Relay -40 70 °C o Contactor for Storage -60 +80 °C |
| Climatic Withstand | Category I | B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible | | Without Derating 3000 m |
| REACH Declaration | | 2CMT2021-006202 |
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Resistance to Shock acc. to IEC 60068-2-27

Closed, Shock Direction: B1 10 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 20 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 9 g Open, Shock Direction: C2 14 g Shock Direction: A 20 g Shock Direction: B2 15 g

5 ... 300 Hz 3 g Closed position / 2 g Open position

Resistance to Vibrations acc. to IEC 60068-2-6 RoHS Information

2CMT2021-006277

| Certificates and Declarations | |
|-------------------------------------|---------------------------|
| CB Certificate | CB_CN13475-M1 |
| CCC Certificate | CCC_2007010309251577 |
| CQC Certificate | CQC2007010309251577 |
| Declaration of Conformity - CCC | 2020980304001224 |
| Declaration of Conformity - CE | 1SBD250014U1000 |
| Declaration of Conformity - UKCA | 1SBD250049U1000 |
| GOST Certificate | GOST_POCCCNME77B07822.pdf |
| UL Certificate | UL_20120917_E312527_1_1 |
| UL Listing Card | UL_E312527 |

| Container Information | |
|-----------------------------------|---------------|
| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 78 mm |
| Package Level 1 Depth / Length | 80 mm |
| Package Level 1 Height | 48 mm |
| Package Level 1 Gross Weight | 0.22 kg |
| Package Level 1 EAN | 3471523037205 |
| Package Level 2 Units | 40 piece |
| Package Level 2 Width | 250 mm |
| Package Level 2 Depth / Length | 195 mm |
| Package Level 2 Height | 315 mm |
| Package Level 2 Gross Weight | 8.8 kg |
| Package Level 3 Units | 960 piece |

| 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 |
| ETIM 8 | EC000066 - Power contactor, AC switching |

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| eClass | V11.0 : 27371003 |
|---------------------------------------|--|
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4761 >> Magnet contactor, AC-switching |
| E-Number (Sweden) | 3210515 |

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors \rightarrow AS Contactors \rightarrow AS16

