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PRODUCT-DETAILS

## ASL09-30-01-88

## ASL09-30-01-88 220VDC Contactor



| General Information   |  |
|-----------------------|--|
| Extended Product Type | ASL09-30-01-88   |
| Product ID            | 1SBL103001R8801  |
| EAN                   | 3471523059382  |
| Catalog Description   | ASL09-30-01-88 220VDC Contactor  |
| Long Description      | ASL09 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 ASL 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 contacts, 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: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available. ASL contactors are fitted with low consumption DC coils and are suitable for a direct control by PLC outputs. |

| Ordering               |          |
|------------------------|----------|
| Minimum Order Quantity | 40 piece |
| Customs Tariff Number  | 85364900 |

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| Popular Downloads   |   |
|---|---|
| Data Sheet, Technical<br>Information                        | 1SBC100214C0202   |
| Instructions and<br>Manuals                                 | 1SBC101020M9701   |
| Dimensions  |   |
| Product Net Width   | 45 mm   |
| Product Net Depth /<br>Length                               | 72.5 mm   |
| Product Net Height  | 68 mm   |
| Product Net Weight  | 0.28 kg   |
| Technical   |   |
| Number of Main<br>Contacts NO                               | 3   |
| Number of Main<br>Contacts NC                               | 0   |
| Number of Auxiliary<br>Contacts NO                          | 0   |
| Number of Auxiliary<br>Contacts NC                          | 1   |
| Standards   | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°<br>14  |
| Rated Operational<br>Voltage                                | Auxiliary Circuit 690 V<br>Main Circuit 690 V   |
| Rated Frequency (f)   | Auxiliary Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz   |
| Conventional Free-air<br>Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 22 A<br>acc. to IEC 60947-5-1, Θ = 40 °C 10 A  |
| Rated Operational<br>Current AC-1 (I <sub>e</sub> )         | (690 V) 40 °C 22 A<br>(690 V) 60 °C 18 A<br>(690 V) 70 °C 15 A  |
| Rated Operational<br>Current AC-3 (I <sub>e</sub> )         | (415 V) 60 °C 9 A<br>(440 V) 60 °C 8 A<br>(500 V) 60 °C 8 A<br>(690 V) 60 °C 5 A<br>(380 / 400 V) 60 °C 9 A<br>(220 / 230 / 240 V) 60 °C 9 A                        |
| Rated Operational<br>Current AC-15 (I <sub>e</sub> )        | (500 V) NC 2<br>(500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A  |
| Rated Operational<br>Current DC-13 (I <sub>e</sub> )        | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W<br>(72 V) 1 A / 72 W<br>(110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W<br>(220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W |
| Rated Operational Power<br>AC-3 (P <sub>e</sub> )           | (400 V) 4 kW<br>(415 V) 4 kW<br>(440 V) 4 kW<br>(500 V) 4 kW<br>(690 V) 4 kW  |

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|   | (220 / 230 / 240 V) 2.2 kW  |
|---|---|
| Rated Short-time<br>Withstand Current Low<br>Voltage (I <sub>cw</sub> ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 22 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 230 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 65 A for 0.1 s 140 A |
| Maximum Breaking<br>Capacity  | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 155 A<br>cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 90 A   |
| Rated Insulation Voltage $(U_i)$  | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V<br>acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 V  |
| Rated Impulse<br>Withstand Voltage (U <sub>imp</sub><br>)               | Auxiliary Circuit 6 kV  |
| Maximum Electrical<br>Switching Frequency                               | (AC-1) 600 cycles per hour<br>(AC-15) 1200 cycles per hour<br>(AC-2 / AC-4) 300 cycles per hour<br>(AC-3) 1200 cycles per hour<br>(DC-13) 900 cycles per hour   |
| Maximum Mechanical<br>Switching Frequency                               | 3600 cycles per hour  |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )                      | DC Operation 220 V  |
| Power Loss  | at Rated Operating Conditions AC-1 per Pole 1 W<br>at Rated Operating Conditions AC-3 per Pole 0.16 W   |
| Operate Time  | Between Coil De-energization and NC Contact Closing 15 20 ms<br>Between Coil De-energization and NO Contact Opening 13 17 ms<br>Between Coil Energization and NC Contact Opening 31 53 ms<br>Between Coil Energization and NO Contact Closing 36 59 ms  |
| Connecting Capacity<br>Main Circuit                                     | Flexible with Ferrule 1/2x 0.75 2.5 mm²<br>Flexible with Insulated Ferrule 1x 0.75 2.5 mm²<br>Flexible with Insulated Ferrule 2x 0.75 1.5 mm²<br>Rigid 1/2x 0.75 4 mm²  |
| Connecting Capacity<br>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<br>Control Circuit                                  | Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 2.5 mm <sup>2</sup>   |
| Wire Stripping Length   | Auxiliary Circuit 9 mm<br>Control Circuit 9 mm<br>Main Circuit 9 mm   |
| Degree of Protection  | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20   |
| Tightening Torque   | Auxiliary Circuit 1 N·m<br>Control Circuit 1 N·m<br>Main Circuit 1 N·m  |
| Terminal Type   | Screw Terminals   |
| Product Name  | Block Contactor   |

| Technical UL/CSA             |                                 |
|------------------------------|---------------------------------|
| General Use Rating<br>UL/CSA | (600 V AC) 20 A                 |
| Horsepower Rating            | (120 V AC) Single Phase 1/3 hp  |
| UL/CSA                       | (200 208 V AC) Three Phase 2 hp |
|                              | (220 240 V AC) Three Phase 2 hp |
|                              | (240 V AC) Single Phase 1 hp    |
|                              | (440 480 V AC) Three Phase 5 hp |

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|                      | (550 600 V AC) Three Phase 7.5 hp |
|----------------------|-----------------------------------|
| Tightening Torque    | Auxiliary Circuit 9 in lb         |
| UL/CSA               | Control Circuit 9 in lb           |
|                      | Main Circuit 9 in lb              |
| Full Load Amps Motor | (120 V AC) Single Phase 7.2 A     |
| Use                  | (200 208 V AC) Three Phase 7.8 A  |
|                      | (220 240 V AC) Three Phase 6.8 A  |
|                      | (240 V AC) Single Phase 8 A       |
|                      | (440 480 V AC) Three Phase 7.6 A  |
|                      | (550 600 V AC) Three Phase 9 A    |

| Environmental                                 |   |
|---|---|
| Ambient Air<br>Temperature                    | Close to Contactor Fitted with Thermal O/L Relay -25 60 °C<br>Close to Contactor without Thermal O/L Relay -40 70 °C<br>Close to Contactor for Storage -60 +80 °C   |
| Climatic Withstand                            | Category B according to IEC 60947-1 Annex Q   |
| 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>Closed, Shock Direction: C1 20 g<br>Closed, Shock Direction: C2 20 g<br>Open, Shock Direction: B1 5 g<br>Open, Shock Direction: C1 9 g<br>Open, Shock Direction: C2 14 g<br>Shock Direction: A 20 g<br>Shock Direction: B2 15 g |
| Resistance to Vibrations                      | 3g Closed Position & 2g Open Position 5 300 Hz  |

| Material Compliance                               |  |
|---|--|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658  |
| REACH Declaration                                 | 2CMT2021-006202  |
| RoHS Information                                  | 2CMT2021-006277  |
| RoHS Status                                       | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances                                  | 2CMT2023-006525  |
| Control Act - TSCA                                |  |
| WEEE B2C / B2B                                    | Business To Business   |
| WEEE Category                                     | 5. Small Equipment (No External Dimension More Than 50 cm)             |

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

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| Container Information           |               |
|---------------------------------|---------------|
| Package Level 1 Units           | box 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<br>Weight | 0.28 kg       |
| Package Level 1 EAN             | 3471523059382 |
| 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<br>Weight | 11.2 kg       |
| Package Level 3 Units           | 960 piece     |

| Classifications                       |  |
|---------------------------------------|--|
| Object Classification<br>Code         | Q  |
| ETIM 7                                | EC000066 - Power contactor, AC switching |
| ETIM 8                                | EC002552 - Power contactor, DC switching |
| ETIM 9                                | EC002552 - Power contactor, DC switching |
| eClass                                | V11.0 : 27371018                         |
| UNSPSC                                | 39121529                                 |
| IDEA Granular Category<br>Code (IGCC) | 4755 >> Contactors                       |

## Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors\ \rightarrow\ AS\ Contactors\ \rightarrow\ ASL09$ 

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