

PRODUCT-DETAILS

AFS40-30-22-13

AFS40-30-22-13 100-250V50/60HZ-DC Contactor



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|--------|----------|-------|
| Ganara | l Inform | ation |

| Extended Product Type | AFS40-30-22-13 |
|-----------------------|-----------------|
| Product ID | 1SBL347082R1322 |
| EAN | 3471523157637 |

Catalog Description

AFS40-30-22-13 100-250V50/60HZ-DC Contactor

Long Description

AFS40 ... AFS96 contactors are designed for machine safety applications. They are delivered with fixed front-mounted auxiliary contact blocks making them ideal for monitoring and controlling circuits. Mechanically linked and mirror contacts make your system safer. - control circuit with electronic coil interface: - 24...60 V AC, 20...60 V DC and 100...250 V AC / DC operated accepting a wide control voltage range - reduced panel energy consumption - mirror and mechanically linked contacts, with front marked symbol acc. to IEC60947-5-1, always guaranteeing the right contactor status front-mounted auxiliary contact block: - permanently fixed - protective cover to prevent manual operation - yellow housing for easy identification - minimum switching capacity 12 V / 3 mA, with a failure rate 10-7 acc. to IEC 60947-5-4 - built-in surge suppression

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 |
| E-Number (Sweden) | 3210668 |

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| Container Information | |
|---------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 167 mm |
| Package Level 1 Depth / Length | 180 mm |
| Package Level 1 Height | 97 mm |
| Package Level 1 Gross Weight | 1.14 kg |
| Package Level 1 EAN | 3471523157637 |
| Package Level 2 Units | box 6 piece |
| Package Level 2 Width | 250 mm |
| Package Level 2 Depth / Length | 300 mm |
| Package Level 2 Height | 300 mm |
| Package Level 2 Gross Weight | 6.84 kg |
| Package Level 3 Units | 144 piece |

| Certificates and Declarations (Document Number) | |
|---|--------------------------|
| CB Certificate | CB_SE-96554 |
| CCC Certificate | CCC_2015010304824714 |
| cUL Certificate | UL_20170607-E312527-14-1 |
| Declaration of Conformity - CE | 1SBD250022U1000 |
| DNV Certificate | DNV-GL_TAE00001AF-3 |
| DNV GL Certificate | DNV-GL_TAE00001AF-3 |
| EAC Certificate | EAC_RUC-FRME77B03199 |
| GL Certificate | DNV-GL_TAE00001AF-3 |
| Instructions and Manuals | 1SBC101052M6801 |
| RMRS Certificate | RMRS_1802705280 |
| RoHS Information | 1SBD250022U1000 |
| UL Listing Card | E312527 |

| General Use Rating UL/CSA | (600 V AC) 60 A |
|------------------------------|--|
| Horsepower Rating UL/CSA | (220 240 V AC) Three Phase 15 hp (440 480 V AC) Three Phase 30 hp (550 600 V AC) Three Phase 40 hp (120 V AC) Single Phase 3 hp (200 208 V AC) Three Phase 10 hp (240 V AC) Single Phase 7-1/2 hp |
| Tightening Torque UL/CSA | Auxiliary Circuit 11 IA Control Circuit 11 IA Main Circuit 35 IA |

| Environmental | |
|--------------------------|---|
| Ambient Air | Close to Contactor for Storage -60 +80 °C |
| Temperature | Close to Contactor without Thermal O/L Relay -40 +70 °C |
| | Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C |
| Climatic Withstand | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating | 3000 m |
| Altitude Permissible | |
| Resistance to Vibrations | 5 300 Hz 3 g closed position / 3 g open position |
| acc. to IEC 60068-2-6 | |

| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: A 25 K40 Closed, Shock Direction: B1 25 K40 |
|---|--|
| | Closed, Shock Direction: B2 15 K40 Closed, Shock Direction: C1 25 K40 |
| | Closed, Shock Direction: C2 25 K40 |
| RoHS Status | Following EU Directive 2011/65/EU |

| Technical | |
|---|---|
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 2 |
| Number of Auxiliary Contacts NC | 2 |
| Standards | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N ⁻ 14 |
| Rated Operational Voltage | Main Circuit 690 V Auxiliary 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 60947-5-1, q = 40 °C 16 A acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A |
| Rated Operational Current AC-1 (l _e) | (690 V) 40 °C 70 A (690 V) 60 °C 60 A (690 V) 70 °C 50 A |
| Rated Operational Current AC-3 (I _e) | (220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 40 A (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A |
| Rated Operational Power AC-3 (P _e) | (220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (400 V) 18.5 kW |
| Rated Operational Current AC-15 (I _e) | (220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A |
| Rated Short-time Withstand Current (I _{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A for 0.1 s 140 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 600 A |
| Maximum Electrical Switching Frequency | AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour AC-15 1200 cycles per hour DC-13 900 cycles per hour |
| Rated Operational Current DC-13 (I _e) | (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W |

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| | (500 V) 0.13 A / 65 W |
|---|---|
| Rated Insulation Voltage | (600 V) 0.1 A / 60 W acc. to UL/CSA 600 V |
| (U_i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V |
| Rated Impulse Withstand Voltage (U _{imp}) | 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 100 250 V 50 Hz / 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V |
| Operate Time | Between Coil De-energization and NC Contact Closing 19 105 ms Between Coil De-energization and NO Contact Opening 17 100 ms Between Coil Energization and NC Contact Opening 38 95 ms Between Coil Energization and NO Contact Closing 42 100 ms |
| Connecting Capacity Main Circuit | Rigid 1/2x 6 3 5 m² Flexible with Ferrule 1/2x 4 35 m² Flexible with Insulated Ferrule 1/2x 4 35 m² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 4 35 m ² Flexible with Ferrule 2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Rigid 1/2x 1 2.5 m ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule $1/2x$ 0.75 2.5 m 2 Flexible with Insulated Ferrule $1x$ 0.75 2.5 m 2 Flexible with Insulated Ferrule $2x$ 0.75 1.5 m 2 Rigid $1/2x$ 1 2.5 m 2 |
| Wire Stripping Length | Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 16 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 IP10 |
| Terminal Type | Screw Terminals |
| Dimensions | |
| Product Net Width | 55 mm |
| Product Net Depth / Length | 144 mm |
| Product Net Height | 125.5 mm |
| Product Net Weight | 1 kg |
| Popular Downloads | |
| Instructions and Manuals | 1SBC101052M6801 |
| Ordering | |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Categories

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 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$

