

PRODUCT-DETAILS

AFS65-30-22-13

AFS65-30-22-13 100-250V50/60HZ-DC Contactor



General Information

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|-----------------------|---|
| Extended Product Type | AFS65-30-22-13 |
| Product ID | 1SBL387082R1322 |
| EAN | 3471523157835 |
| Catalog Description | AFS65-30-22-13 100-250V50/60HZ-DC Contactor |

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| Long Description | <p>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</p> |
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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 |
| E-Number (Sweden) | 3210672 |

Container Information

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| 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 | 3471523157835 |
| 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)

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| 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 |

Technical UL/CSA

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| General Use Rating UL/CSA | (600 V AC) 90 A |
| Horsepower Rating UL/CSA | (220 ... 240 V AC) Three Phase 25 hp (440 ... 480 V AC) Three Phase 50 hp (550 ... 600 V AC) Three Phase 60 hp (120 V AC) Single Phase 5 hp (200 ... 208 V AC) Three Phase 20 hp (240 V AC) Single Phase 15 hp |
| Tightening Torque UL/CSA | Auxiliary Circuit 11 IA Control Circuit 11 IA Main Circuit 35 IA |

Environmental

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| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C 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 Altitude Permissible | 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 3 g closed position / 3 g open position |

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

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| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 2 |
| Number of Auxiliary Contacts NC | 2 |
| 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, $q = 40^\circ\text{C}$ 16 A acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 105 A |
| Rated Operational Current AC-1 (I_e) | (690 V) 40°C 105 A (690 V) 60°C 90 A (690 V) 70°C 80 A |
| Rated Operational Current AC-3 (I_e) | (220 / 230 / 240 V) 60°C 65 A (380 / 400 V) 60°C 65 A (415 V) 60°C 65 A (440 V) 60°C 65 A (500 V) 60°C 55 A (690 V) 60°C 39 A |
| Rated Operational Power AC-3 (P_e) | (220 / 230 / 240 V) 18.5 kW (380 / 400 V) 30 kW (415 V) 37 kW (440 V) 37 kW (500 V) 37 kW (690 V) 37 kW (400 V) 30 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 for 1 s 100 A |
| Maximum Breaking Capacity | $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 950 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ 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 (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W |

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| Rated Insulation Voltage (U _i) | acc. to UL/CSA 600 V 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 m ² Flexible with Ferrule 1/2x 4 ... 35 m ² Flexible with Insulated Ferrule 1/2x 4 ... 35 m ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 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 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 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

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| 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 |
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Ordering

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

Categories

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

