PRODUCT-DETAILS

# AF26-40-00-13

## AF26-40-00-13 100-250V50/60HZ-DC Contactor



### General Information

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|---|---|
| Extended Product Type | AF26-40-00-13 |
| Product ID | 1SBL237201R1300 |
| EAN | 3471523115231 |
| Catalog Description | AF26-40-00-13 100-250V50/60HZ-DC Contactor |
| Long Description | The AF26-40-00-13 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 11 kW / 400 V AC (AC-3) and switching power circuits up to 45 A (AC-1) or 45 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. |

### Ordering

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

### Popular Downloads

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|---|---|
| Instructions and Manuals | 1SBC101027M6801 |
| Dimension Diagram | DNV_TAE00001AF-4 |

## Dimensions

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| Product Net Width | 45 mm |
| Product Net Depth / Length | 101 mm |
| Product Net Height | 86 mm |
| Product Net Weight | 0.36 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 | 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 |
| Rated Frequency (f) | Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current ($I_{th}$) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 55 A |
| Rated Operational Current AC-1 ($I_e$) | (690 V) 40 °C 45 A<br>(690 V) 60 °C 40 A<br>(690 V) 70 °C 32 A |
| Rated Operational Current AC-3 ($I_e$) | (415 V) 60 °C 21.2 A<br>(440 V) 60 °C 20 A<br>(500 V) 60 °C 17.6 A<br>(690 V) 60 °C 10.5 A<br>(380 / 400 V) 60 °C 22 A<br>(220 / 230 / 240 V) 60 °C 23.2 A |
| Rated Operational Power AC-3 ($P_e$) | (400 V) 11 kW<br>(415 V) 11 kW<br>(440 V) 11 kW<br>(500 V) 11 kW<br>(690 V) 9 kW<br>(220 / 230 / 240 V) 5.5 kW |
| Rated Short-time Withstand Current Low Voltage ($I_{cw}$) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 300 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 55 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 450 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A<br>for 1 s -empty- A |
| Maximum Electrical Switching Frequency | (AC-1) 600 cycles per hour |
| Rated Insulation Voltage ($U_i$) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 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<br>60 Hz 100 ... 250 V<br>DC Operation 100 ... 250 V |
| Operate Time | Between Coil De-energization and NC Contact Closing 13 ... 98 ms<br>Between Coil De-energization and NO Contact Opening 11 ... 95 ms<br>Between Coil Energization and NC Contact Opening 38 ... 90 ms<br>Between Coil Energization and NO Contact Closing 40 ... 95 ms |
| Mounting on DIN Rail | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |
| Mounting by Screws (not supplied) | 2 x M4 screws placed diagonally |

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| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 1.5 ... 16 mm²<br>Flexible with Insulated Ferrule 1x 1.5 ... 16 mm²<br>Flexible with Insulated Ferrule 2x 1.5 ... 16 mm²<br>Rigid 1/2x 1.5 ... 16 mm² |
| Connecting Capacity Control 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 1 ... 2.5 mm² |
| Wire Stripping Length | Control Circuit 10 mm<br>Main Circuit 12 mm |
| Degree of Protection | 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 |
| Terminal Type | Screw Terminals |

## Technical UL/CSA

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| General Use Rating UL/CSA | (600 V AC) 45 A |
| Tightening Torque UL/CSA | Control Circuit 11 in·lb<br>Main Circuit 22 in·lb |

## Environmental

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| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air -40 ... 70 °C |
| Climatic Withstand | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 4 g closed position / 2 g open position |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: B1 25 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: A 30 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 25 g<br>Shock Direction: C2 25 g |
| RoHS Status | Following EU Directive 2011/65/EU |

## Certificates and Declarations (Document Number)

| | |
|---|---|
| ABS Certificate | ABS_20-2060694-PDA |
| BV Certificate | BV_2634H24898B0 |
| CB Certificate | CB_SE-96553M1 |
| CCC Certificate | CCC_2010010304445623 |
| CQC Certificate | CQC2010010304445623<br>CQC2020010304294316 |
| Declaration of Conformity - CCC | 2020980304001254<br>2020980304001052 |
| Declaration of Conformity - CE | 1SBD250001U1000 |
| Declaration of Conformity - UKCA | 1SBD250032U1000 |
| EAC Certificate | EAC_RU_FRME77B03447 |
| Environmental Information | 1SBD250153E1000 |
| GL Certificate | DNV-GL_TAE00001AF-3 |
| GOST Certificate | GOST_POCCFR.ME77.B07175.pdf |
| Instructions and Manuals | 1SBC101027M6801 |
| KC Certificate | KC_HW02016-15002C |
| LR Certificate | LRS_1300087E1 |

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|---|---|
| RINA Certificate | RINA_ELE240318XG |
| RMRS Certificate | RMRS_1802705280 |
| RoHS Information | 1SBD250001U1000 |
| UL Certificate | UL_20171228-E319322_3_1 |
| UL Listing Card | UL_E319322 |

## Container Information

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| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 87 mm |
| Package Level 1 Depth / Length | 103 mm |
| Package Level 1 Height | 47 mm |
| Package Level 1 Gross Weight | 0.36 kg |
| Package Level 1 EAN | 3471523115231 |
| Package Level 2 Units | box 18 piece |
| Package Level 2 Width | 250 mm |
| Package Level 2 Depth / Length | 300 mm |
| Package Level 2 Height | 315 mm |
| Package Level 2 Gross Weight | 12.96 kg |
| Package Level 3 Units | 864 piece |

## 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 |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| E-Number (Finland) | 3705830 |
| E-Number (Sweden) | 3211511 |

## Categories

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

