

accessories.

1SBC101035M6801

PRODUCT-DETAILS

Instructions and

Manuals

AF09ZB-22-00RT-22

AF09ZB-22-00RT-22 48-130V50/60HZ-DC Contactor



| General Information | |
|-----------------------|---|
| Extended Product Type | AF09ZB-22-00RT-22 |
| Product ID | 1SBL136560R2200 |
| EAN | 3471523129726 |
| Catalog Description | AF09ZB-22-00RT-22 48-130V50/60HZ-DC Contactor |
| Long Description | The AF09ZB-22-00RT-22 is a 4 pole - 690 V IEC or 600 UL contactor with Ring-Tongue Terminals, controlling motors up to 4 kW / 400 V AC (AC-3) and switching power circuits up to 25 A (AC-1) or 25 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (48-130 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 |

Ordering Minimum Order Quantity 1 piece Customs Tariff Number 85364900 Popular Downloads

| Dimensions | |
|---|---|
| Product Net Width | 45 mm |
| Product Net Depth / Length | 77 mm |
| Product Net Height | 86 mm |
| Product Net Weight | 0.32 kg |
| Technical | |
| Number of Main Contacts NO | 2 |
| Number of Main Contacts NC | 2 |
| Number of Auxiliary Contacts NO | C |
| Number of Auxiliary Contacts NC | 0 |
| Standards | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives. |
| 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 $q = 40 ^{\circ}\text{C}$ 35 A |
| Rated Operational Current AC-1 (I _e) | (690 V) 40 °C 25 (690 V) 60 °C 25 A (690 V) 70 °C 22 |
| Rated Operational Current AC-3 (I _e) | (415 V) 60 °C 9 A (440 V) 60 °C 9 A (500 V) 60 °C 9.5 A (690 V) 60 °C 7 A (380 / 400 V) 60 °C 9 A (220 / 230 / 240 V) 60 °C 9 A |
| Rated Operational Power AC-3 (P _e) | (400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW (380 / 400 V) 4 kW (220 / 230 / 240 V) 2.2 kW |
| Rated Short-time Withstand Current Low Voltage (I _{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 1 s -empty- A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 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 |
| Rated Impulse Withstand Voltage (U _{imp}) | 6 kV |
| / Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V |
| Operate Time | DC Operation 48 130 V Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms |

| | Between Coil Energization and NO Contact Closing 40 95 ms |
|----------------------|--|
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP10 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Terminal Type | Ring-Tongue Terminals |

Technical UL/CSA

General Use Rating (600 V AC) 25 A UL/CSA

| Environmental | |
|---|---|
| Ambient Air Temperature | Close to Contactor for Storage -60 +80 °C 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 |
| RoHS Status | Following EU Directive 2011/65/EU |

| Certificates and Declarations (Document Number) | |
|---|-------------------------|
| CB Certificate | CB_SE-96551 |
| CCC Certificate | CCC_2010010304445624 |
| CQC Certificate | CQC2010010304445624 |
| Declaration of Conformity - CCC | 2020980304001253 |
| Declaration of Conformity - CE | 1SBD250004U1000 |
| EAC Certificate | EAC_RU C-FR ME77 B03597 |
| Environmental Information | 1SBD250165E1000 |
| Instructions and Manuals | 1SBC101035M6801 |
| RoHS Information | 1SBD250004U1000 |
| UL Certificate | UL_20121126-E319322_4_1 |
| UL Listing Card | UL_E319322 |

| Container Information | |
|-----------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 87 mm |
| Package Level 1 Depth / Length | 79 mm |
| Package Level 1 Height | 47 mm |
| Package Level 1 Gross Weight | 0.32 kg |
| Package Level 1 EAN | 3471523129726 |
| Package Level 2 Units | box 27 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 | 17.28 kg |
| Package Level 3 Units | 1296 piece |

AF09ZB-22-00RT-22 4

| 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 |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors$

