

## PRODUCT-DETAILS

# AF38ZB-40-00RT-23

## AF38ZB-40-00RT-23 100-250V50/60HZ-DC Contactor



### General Information

|                       |                                                |
|-----------------------|------------------------------------------------|
| Extended Product Type | AF38ZB-40-00RT-23                              |
| Product ID            | 1SBL296260R2300                                |
| EAN                   | 3471523129337                                  |
| Catalog Description   | AF38ZB-40-00RT-23 100-250V50/60HZ-DC Contactor |

### Long Description

The AF38ZB-40-00RT-23 is a 4 pole - 690 V IEC or 600 UL contactor with Ring-Tongue Terminals, controlling motors up to 11 kW / 400 V AC (AC-3) and switching power circuits up to 55 A (AC-1) or 55 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

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

### Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 45 mm  |
| Product Net Depth / Length | 101 mm |
| Product Net Height         | 86 mm  |

|                    |         |
|--------------------|---------|
| Product Net Weight | 0.39 kg |
|--------------------|---------|

## Technical

|                                                    |                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/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. |
| 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 55                                                                                                                                                                                                                                                                                                                           |
| 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 Impulse Withstand Voltage ( $U_{imp}$ )      | 6 kV                                                                                                                                                                                                                                                                                                                                       |
| Rated Control Circuit Voltage ( $U_c$ )            | 50 Hz 100 ... 250 V<br>60 Hz 100 ... 250 V<br>DC Operation 100 ... 250 V                                                                                                                                                                                                                                                                   |
| Terminal Type                                      | Ring-Tongue Terminals                                                                                                                                                                                                                                                                                                                      |

## Technical UL/CSA

|                           |                 |
|---------------------------|-----------------|
| General Use Rating UL/CSA | (600 V AC) 55 A |
|---------------------------|-----------------|

## Environmental

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| 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                                                              |
| RoHS Status             | Following EU Directive 2011/65/EU                                                                        |

## Certificates and Declarations (Document Number)

|                                 |                      |
|---------------------------------|----------------------|
| CB Certificate                  | CB_SE-96553          |
| CCC Certificate                 | CCC_2010010304445623 |
| CQC Certificate                 | CQC2010010304445623  |
| Declaration of Conformity - CCC | 2020980304001254     |
| Declaration of Conformity - CE  | 1SBD250004U1000      |

|                  |                         |
|------------------|-------------------------|
| EAC Certificate  | EAC_RU C-FR ME77 B03597 |
| 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 | 103 mm        |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Gross Weight   | 0.4 kg        |
| Package Level 1 EAN            | 3471523129337 |
| 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   | 14.4 kg       |
| Package Level 3 Units          | 864 piece     |

## 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 → Control Products → Contactors → Block Contactors

