

PRODUCT-DETAILS

AF09ZB-40-00RT-22

AF09ZB-40-00RT-22 48-130V50/60HZ-DC Contactor



General Information

Extended Product Type	AF09ZB-40-00RT-22
Product ID	1SBL136260R2200
EAN	3471523129429
Catalog Description	AF09ZB-40-00RT-22 48-130V50/60HZ-DC Contactor

Long Description	<p>The AF09ZB-40-00RT-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 accessories.</p>
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Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Instructions and Manuals	1SBC101035M6801
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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	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.
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 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 (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 $I_e > 100$ A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ 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	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

Terminal Type Ring-Tongue Terminals

Technical UL/CSAGeneral 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 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 3471523129429

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

Classifications

Object Classification Q

Code	
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
UNSPSC	39121529

Categories

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

