PRODUCT-DETAILS

AF26ZB-30-00RT-23

AF26ZB-30-00RT-23 100-250V50/60HZ-DC Contactor



General Information

Extended Product Type	AF26ZB-30-00RT-23
Product ID	1SBL236060R2300
EAN	3471523128538
Catalog Description	AF26ZB-30-00RT-23 100-250V50/60HZ-DC Contactor
Long Description	The AF26ZB-30-00RT-23 is a 3 pole - 690 V IEC or 600 UL contactor with Ring-Tongue Terminals, controlling motors up to 11 kW / 400 V AC (AC-3) or 15 hp / 480 V UL 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

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads

Data Sheet, Technical Information	1SBC100220C0201
Instructions and Manuals	1SBC101035M6801
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	45 mm
Product Net Depth / Length	86 mm
Product Net Height	86 mm
Product Net Weight	0.36 kg

Technical

Number of Main Contacts NO	3
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)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 50 A
Rated Operational Current AC-1 (I_e)	(690 V) 40 °C 45 A (690 V) 60 °C 40 A (690 V) 70 °C 32 A
Rated Operational Current AC-3 (I_e)	(415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A (380 / 400 V) 60 °C 26 A (220 / 230 / 240 V) 60 °C 26 A
Rated Operational Current AC-3e (I_e)	(415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A (380 / 400 V) 60 °C 26 A (220 / 230 / 240 V) 60 °C 26 A
Rated Operational Power AC-3 (P_e)	(415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
Rated Operational Power AC-3e (P_e)	(415 V) 11 kW (440 V) 15 kW (500 V) 15 kW

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	(690 V) 15 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 200 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
Rated Operational Current DC-1 (I_e)	(110 V) 2 Poles in Series, 40 °C 45 A (110 V) 2 Poles in Series, 60 °C 40 A (110 V) 2 Poles in Series, 70 °C 32 A (110 V) 3 Poles in Series, 40 °C 45 A (110 V) 3 Poles in Series, 60 °C 40 A (110 V) 3 Poles in Series, 70 °C 32 A (220 V) 3 Poles in Series, 40 °C 45 A (220 V) 3 Poles in Series, 60 °C 40 A (220 V) 3 Poles in Series, 70 °C 32 A (72 V) 1-Pole, 40 °C 45 A (72 V) 1-Pole, 60 °C 40 A (72 V) 1-Pole, 70 °C 32 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A
Rated Operational Current DC-3 (I_e)	(110 V) 2 Poles in Series, 40 °C 45 A (110 V) 2 Poles in Series, 60 °C 40 A (110 V) 2 Poles in Series, 70 °C 32 A (110 V) 3 Poles in Series, 40 °C 45 A (110 V) 3 Poles in Series, 60 °C 40 A (110 V) 3 Poles in Series, 70 °C 32 A (220 V) 3 Poles in Series, 40 °C 45 A (220 V) 3 Poles in Series, 60 °C 40 A (220 V) 3 Poles in Series, 70 °C 32 A (72 V) 1-Pole, 40 °C 45 A (72 V) 1-Pole, 60 °C 40 A (72 V) 1-Pole, 70 °C 32 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A
Rated Operational Current DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 45 A (110 V) 2 Poles in Series, 60 °C 40 A (110 V) 2 Poles in Series, 70 °C 32 A (110 V) 3 Poles in Series, 40 °C 45 A (110 V) 3 Poles in Series, 60 °C 40 A (110 V) 3 Poles in Series, 70 °C 32 A (220 V) 3 Poles in Series, 40 °C 20 A (220 V) 3 Poles in Series, 60 °C 20 A (220 V) 3 Poles in Series, 70 °C 20 A (72 V) 1-Pole, 40 °C 20 A (72 V) 1-Pole, 60 °C 20 A (72 V) 1-Pole, 70 °C 20 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V

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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 60 Hz 100 ... 250 V DC Operation 100 ... 250 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
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
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

NEMA Size	1
Continuous Current Rating NEMA	27 A
Horsepower Rating NEMA	(115 V AC) Single Phase 2 Hp (200 V AC) Three Phase 7-1/2 Hp (230 V AC) Single Phase 3 Hp (230 V AC) Three Phase 7-1/2 Hp (460 V AC) Three Phase 10 Hp (575 V AC) Three Phase 10 Hp
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 45 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 7-1/2 hp (220 ... 240 V AC) Three Phase 7-1/2 hp (240 V AC) Single Phase 3 hp (440 ... 480 V AC) Three Phase 15 hp (550 ... 600 V AC) Three Phase 20 hp
Tightening Torque UL/CSA	Control Circuit 11 in·lb Main Circuit 22 in·lb

Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B

Material Compliance

Conflict Minerals Reporting Template	9AKK108467A5658

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(CMRT)	
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

Environmental Product Declaration - EPD	1SBD250584E4000 2TFP200036A1001

Certificates and Declarations

CB Certificate	CB_SE-112316
CCC Certificate	CCC_2010010304445623
CQC Certificate	CQC2010010304445623
Declaration of Conformity - CCC	2020980304001254
Declaration of Conformity - CE	1SBD250004U1000
Declaration of Conformity - UKCA	1SBD250035U1000
UL Listing Card	UL_E312527
UR Certificate	UL_20121122-E312527_9_5

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	87 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.36 kg
Package Level 1 EAN	3471523128538
Package Level 2 Units	box 21 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	16.2 kg
Package Level 3 Units	1080 piece

Classifications

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching

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eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> Iec Contactors

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF26



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