

PRODUCT-DETAILS

AF30ZB-30-00RT-22 AF30ZB-30-00RT-22 48-130V50/60HZ-DC Contactor



Extended Product Type	AF30ZB-30-00RT-22
Product ID	1SBL276060R2200
EAN	3471523128828
Catalog Description	AF30ZB-30-00RT-22 48-130V50/60HZ-DC Contacto
Long Description	The AF30ZB-30-00RT-22 is a 3 pole - 690 V IEC or 600 UL contactor with Ring-Tongue Terminals, controlling motors up to 15 kW / 400 V AC (AC-3) or 20 hp / 480 V UL and switching power circuits up to 50 A (AC-1) or 50 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

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

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AF30ZB-30-00RT-22

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

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
Number of Poles	3P
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 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 32 A (440 V) 60 °C 32 A (500 V) 60 °C 28 A (690 V) 60 °C 28 A (380 / 400 V) 60 °C 32 A (220 / 230 / 240 V) 60 °C 33 A
Rated Operational Current AC-3e (I _e)	(415 V) 60 °C 32 A (440 V) 60 °C 32 A (500 V) 60 °C 28 A (690 V) 60 °C 28 A (380 / 400 V) 60 °C 32 A (220 / 230 / 240 V) 60 °C 32 A
Rated Operational Current DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 50 A (110 V) 2 Poles in Series, 60 °C 42 A (110 V) 2 Poles in Series, 70 °C 37 A (110 V) 3 Poles in Series, 60 °C 42 A (110 V) 3 Poles in Series, 60 °C 42 A (110 V) 3 Poles in Series, 70 °C 37 A (220 V) 3 Poles in Series, 70 °C 37 A (220 V) 3 Poles in Series, 70 °C 37 A (220 V) 3 Poles in Series, 70 °C 37 A (72 V) 1-Pole, 40 °C 50 A (72 V) 1-Pole, 60 °C 42 A (72 V) 1-Pole, 60 °C 42 A (72 V) 1-Pole, 60 °C 42 A (72 V) 2 Poles in Series, 40 °C 50 A (72 V) 2 Poles in Series, 60 °C 42 A (72 V) 2 Poles in Series, 60 °C 42 A (72 V) 2 Poles in Series, 60 °C 42 A (72 V) 3 Poles in Series, 60 °C 42 A (72 V) 3 Poles in Series, 60 °C 42 A (72 V) 3 Poles in Series, 70 °C 37 A (72 V) 3 Poles in Series, 70 °C 37 A

Rated Operational Current DC-3 (I_e)

(110 V) 2 Poles in Series, 40 °C 50 A (110 V) 2 Poles in Series, 60 °C 42 A (110 V) 2 Poles in Series, 70 °C 37 A (110 V) 3 Poles in Series, 40 °C 50 A (110 V) 3 Poles in Series, 60 °C 42 A (110 V) 3 Poles in Series, 70 °C 37 A (220 V) 3 Poles in Series, 40 °C 50 A (220 V) 3 Poles in Series, 60 °C 42 A (220 V) 3 Poles in Series, 70 °C 37 A (72 V) 1-Pole, 40 °C 50 A (72 V) 1-Pole, 60 °C 42 A (72 V) 1-Pole, 70 °C 37 A (72 V) 2 Poles in Series, 40 °C 50 A (72 V) 2 Poles in Series, 60 °C 42 A (72 V) 2 Poles in Series, 60 °C 42 A (72 V) 2 Poles in Series, 70 °C 37 A (72 V) 3 Poles in Series, 40 °C 50 A (72 V) 3 Poles in Series, 60 °C 42 A (72 V) 3 Poles in Series, 70 °C 37 A (110 V) 2 Poles in Series, 40 °C 50 A Rated Operational Current (110 V) 2 Poles in Series, 60 °C 42 A DC-5 (I_e) (110 V) 2 Poles in Series, 00 °C 42 A (110 V) 2 Poles in Series, 70 °C 37 A (110 V) 3 Poles in Series, 40 °C 50 A (110 V) 3 Poles in Series, 60 °C 42 A (110 V) 3 Poles in Series, 70 °C 37 A (220 V) 3 Poles in Series, 40 °C 25 A (220 V) 3 Poles in Series, 60 °C 25 A (220 V) 3 Poles in Series, 00 °C 25 A (220 V) 3 Poles in Series, 70 °C 25 A (72 V) 1-Pole, 40 °C 25 A (72 v) 1-Pole, 40 °C 25 A (72 V) 1-Pole, 60 °C 25 A (72 V) 1-Pole, 70 °C 25 A (72 V) 2 Poles in Series, 40 °C 50 A (72 V) 2 Poles in Series, 40 °C 50 A (72 V) 2 Poles in Series, 60 °C 42 A (72 V) 2 Poles in Series, 70 °C 37 A (72 V) 3 Poles in Series, 40 °C 50 A (72 V) 3 Poles in Series, 60 °C 42 A (72 V) 3 Poles in Series, 70 °C 37 A (415 V) 15 kW Rated Operational Power (440 V) 18.5 kW (500 V) 18.5 kW AC-3 (P_e) (690 V) 18.5 kW (380 / 400 V) 15 kW (220)/230/240 V) 9 kW Rated Operational Power (415 V) 15 kW AC-3e (P_e) (440 V) 18.5 kW (500 V) 18.5 kW (690 V) 18.5 kW (380 / 400 V) 15 kW (220)/230/240V)9 kW Rated Short-time 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 Withstand Current Low Voltage (I_{cw}) 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 cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 200 A Capacity Rated Insulation Voltage acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V (U_i) Rated Impulse Withstand 6 kV Voltage (U_{imp}) Maximum Electrical (AC-1) 600 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour Maximum Mechanical 3600 cycles per hour Switching Frequency Rated Control Circuit 50 Hz 48 ... 130 V 60 Hz 48 ... 130 V Voltage (U_c) DC Operation 48 ... 130 V at Rated Operating Conditions AC-1 per Pole 2.4 W at Rated Operating Conditions AC-3 per Pole 0.9 W Power Loss Between Coil De-energization and NC Contact Closing 13 ... 98 ms **Operate Time** 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 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

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supplied) Degree of Protection	
	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP1 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP1
Tightening Torque	Control Circuit 1.2 N·m Main Circuit 2.5 N·m
Terminal Type	Ring-Tongue Terminals
Product Name	Block Contacto
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 50 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 2 hp (200 208 V AC) Three Phase 10 hp (220 240 V AC) Three Phase 10 hp (240 V AC) Single Phase 5 hp (440 480 V AC) Three Phase 20 hp (550 600 V AC) Three Phase 25 hp
Tightening Torque UL/CSA	Control Circuit 11 in·lk Main Circuit 22 in·lk
Full Load Amps Motor Use	(120 V AC) Single Phase 24 A (200 208 V AC) Three Phase 32.2 A (220 240 V AC) Three Phase 28 A (240 V AC) Single Phase 28 A (440 480 V AC) Three Phase 27 A (550 600 V AC) Three Phase 27 A
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 Maximum Operating Altitude Permissible	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 m
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class E
Withstand acc. to IEC	Category 1, Class E
Withstand acc. to IEC 61373	
Withstand acc. to IEC 61373 Pollution Degree Material Compliance Conflict Minerals Reporting Template	
Withstand acc. to IEC 61373 Pollution Degree Material Compliance Conflict Minerals Reporting Template (CMRT)	
Withstand acc. to IEC 61373 Pollution Degree Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration	9AKK108467A5658
Withstand acc. to IEC 61373 Pollution Degree Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control	9AKK108467A5658 2CMT2021-006202
Withstand acc. to IEC 61373 Pollution Degree Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status	9AKK108467A5658 2CMT2021-006202 2CMT2021-006207 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

ABB EcoSolutions	
End Of Life Disassembling Instructions	1SBC101080M6801
Environmental Product Declaration - EPD	1SBD250584E4000 2TFP200036A1001
Sustainable Material	Recycled Cardboard - 86 %

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Content in Packaging (wt.

%) Sustainable Material Content in Product (wt. %)

Recycled Metal - 28 %

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	3471523128828
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
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors

Categories

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Contactors} \rightarrow \text{Block Contactors} \rightarrow \text{AF Contactors} \rightarrow \text{AF30}$



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