



PRODUCT-DETAILS

AF38ZB-30-00RT-21
AF38ZB-30-00RT-21 24-60V50/60HZ 20-60VDC Contactor



概要信息	
产品型号	AF38ZB-30-00RT-21
产品ID	1SBL296060R2100
欧洲商品编号(EAN)	3471523129115
目录说明	AF38ZB-30-00RT-21 24-60V50/60HZ 20-60VDC Contactor
详细描述	The AF38ZB-30-00RT-21 is a 3 pole - 690 V IEC or 600 UL contactor with Ring-Tongue Terminals, controlling motors up to 18.5 kW / 400 V AC (AC-3) or 25 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 (24-60 V 50/60 Hz and 20-60 V 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.

订货信息	
最小起订量	1 piece
海关关税号	85364900

Popular Downloads	
数据手册，技术资料	1SBC100220C0201
说明书和手册	1SBC101035M6801
CAD Dimensional Drawing	2CDC001079B0201

尺寸	
产品净宽	45 mm
产品净深	86 mm
产品净高	86 mm
产品净重	0.36 kg

技术参数	
主触点NO数量	3
主触点NC数量	0
辅助触点NO数量	0
辅助触点NC数量	0
标准	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.
额定工作电压	Main Circuit 690 V
额定频率 (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
额定发热电流（自由空气）(I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 50 A
额定工作电流 AC-1 (I _e)	(690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A
额定工作电流 AC-3 (I _e)	(415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 A (380 / 400 V) 60 °C 38 A (220 / 230 / 240 V) 60 °C 40 A
额定工作电流 AC-3e (I _e)	(415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 A (380 / 400 V) 60 °C 38 A (220 / 230 / 240 V) 60 °C 40 A
额定工作功率 AC-3 (P _e)	(415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
额定工作功率 AC-3e (P _e)	(415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
额定不间断电流 (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
最大分断容量	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 200 A
最高电气切换频率	(AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour
额定工作电流 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, 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, 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
额定工作电流 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, 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
额定工作电流 DC-5 (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 25 A (220 V) 3 Poles in Series, 60 °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, 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, 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
额定绝缘电压 (U _i)	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V
额定冲击耐受电压 (U _{imp})	6 kV
最高机械切换频率	3600 cycles per hour
额定控制电路电压 (U _c)	50 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
工作时间	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
安装到DIN导轨上	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
螺钉安装（螺钉须自备）	2 x M4 screws placed diagonally
防护等级	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP10 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
端子类型	Ring-Tongue Terminals

UL/CSA适用的技术参数

最高工作电压UL/CSA	Main Circuit 600 V
通用等级UL/CSA	(600 V AC) 50 A
额定功率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
拧紧力矩UL/CSA	Control Circuit 11 in-lb Main Circuit 22 in-lb

环境条件

周围环境温度	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
耐候	Category B according to IEC 60947-1 Annex Q
允许的最高工作海拔	Without Derating 3000 m
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS信息	2CMT2021-006277
RoHS状态	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 类别	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

产品环境声明 - EPD	1SBD250584E4000 2TFP200036A1001
产品中可持续材料含量 （重量%）	Recycled Metal - 28 %
包装中的可持续材料含量 （重量%）	Recycled Cardboard - 86 %
产品寿命终止后的拆解指南	1SBC101080M6801

认证及声明（文件编码）

CB认证	CB_SE-112316
CCC认证	CCC_2010010304445623
CQC认证	CQC2010010304445623
Declaration of Conformity - CCC	2020980304001254
符合性声明 - CE	1SBD250004U1000
Declaration of Conformity - UKCA	1SBD250035U1000
UL列表卡	UL_E312527
UR认证	UL_20121122-E312527_9_5

包装信息

1级包装单元	box 1 piece
1级包装宽度	87 mm
1级包装长度	87 mm
1级包装高度	47 mm
1级包装 总重	0.36 kg
1级包装 EAN	3471523129115
2级包装单元	box 21 piece
2级包装宽度	250 mm
2级包装长度	300 mm
2级包装高度	315 mm
2级包装 总重	16.2 kg
3级包装单元	1080 piece

分类

对象分类代码	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
e级	V11.0 : 27371003
UNSPSC	39121529
IDEA 粒度分类代码 (IGCC)	4758 >> Iec Contactors

分类

低压产品及系统 → 控制产品 → 接触器 → 模块化接触器 → AF Contactors → AF38

