



PRODUCT-DETAILS

AF80-30-22-14

AF80-30-22-14 250-500V50/60HZ-DC

Contactors



概要信息	
产品型号	AF80-30-22-14
产品ID	1SBL397001R1422
欧洲商品编号(EAN)	3471523133143
目录说明	AF80-30-22-14 250-500V50/60HZ-DC Contactor
详细描述	The AF80-30-22-14 is a 3 pole - 1000 V IEC or 600 UL contactor with pre-mounted auxiliary contacts and screw terminals, controlling motors up to 37 kW / 400 V AC (AC-3) or 60 hp / 480 V UL and switching power circuits up to 125 A (AC-1) or 105 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 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.

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	1SBC100214C0202
说明书和手册	1SBC101036M6801
CAD Dimensional Drawing	2CDC001079B0201

尺寸	
产品净宽	70 mm
产品净深	149 mm
产品净高	125.5 mm
产品净重	1.22 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	2
辅助触点NC数量	2
标准	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22
额定工作电压	Auxiliary Circuit 690 V Main Circuit 1000 V
额定频率 (f)	Auxiliary Circuit 50 / 60 Hz 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 $\Theta = 40\text{ }^{\circ}\text{C}$ 130 A acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
额定工作电流 AC-1 (I _e)	(690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A
额定工作电流 AC-3 (I _e)	(415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A (1000 V) 60 °C 25 A (380 / 400 V) 60 °C 80 A (220 / 230 / 240 V) 60 °C 80 A
额定工作电流 AC-3e (I _e)	(415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A (380 / 400 V) 60 °C 80 A (220 / 230 / 240 V) 60 °C 80 A
额定工作功率 AC-3 (P _e)	(400 V) 37 kW (415 V) 45 kW (440 V) 45 kW (500 V) 45 kW (690 V) 45 kW (1000 V) 35 kW (380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW
额定工作功率 AC-3e (P _e)	(415 V) 45 kW (440 V) 45 kW (500 V) 45 kW (690 V) 45 kW (380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW
额定工作电流 AC-15 (I _e)	(500 V) 2 A (690 V) 2 A

	(24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
额定不间断电流 (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 780 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A for 0.1 s 140 A for 1 s 100 A
最大分断容量	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 1150 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 750 A
最高电气切换频率	(AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour
额定工作电流 DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 125 A (110 V) 2 Poles in Series, 60 °C 100 A (110 V) 2 Poles in Series, 70 °C 85 A (110 V) 3 Poles in Series, 40 °C 125 A (110 V) 3 Poles in Series, 60 °C 100 A (110 V) 3 Poles in Series, 70 °C 85 A (220 V) 3 Poles in Series, 40 °C 125 A (220 V) 3 Poles in Series, 60 °C 100 A (220 V) 3 Poles in Series, 70 °C 85 A (72 V) 1-Pole, 40 °C 125 A (72 V) 1-Pole, 60 °C 100 A (72 V) 1-Pole, 70 °C 85 A (72 V) 2 Poles in Series, 40 °C 125 A (72 V) 2 Poles in Series, 60 °C 100 A (72 V) 2 Poles in Series, 70 °C 85 A (72 V) 3 Poles in Series, 40 °C 125 A (72 V) 3 Poles in Series, 60 °C 100 A (72 V) 3 Poles in Series, 70 °C 85 A
额定工作电流 DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 125 A (110 V) 2 Poles in Series, 60 °C 100 A (110 V) 2 Poles in Series, 70 °C 85 A (110 V) 3 Poles in Series, 40 °C 125 A (110 V) 3 Poles in Series, 60 °C 100 A (110 V) 3 Poles in Series, 70 °C 85 A (220 V) 3 Poles in Series, 40 °C 125 A (220 V) 3 Poles in Series, 60 °C 100 A (220 V) 3 Poles in Series, 70 °C 85 A (72 V) 1-Pole, 40 °C 125 A (72 V) 1-Pole, 60 °C 100 A (72 V) 1-Pole, 70 °C 85 A (72 V) 2 Poles in Series, 40 °C 125 A (72 V) 2 Poles in Series, 60 °C 100 A (72 V) 2 Poles in Series, 70 °C 85 A (72 V) 3 Poles in Series, 40 °C 125 A (72 V) 3 Poles in Series, 60 °C 100 A (72 V) 3 Poles in Series, 70 °C 85 A
额定工作电流 DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 125 A (110 V) 2 Poles in Series, 60 °C 100 A (110 V) 2 Poles in Series, 70 °C 85 A (110 V) 3 Poles in Series, 40 °C 125 A (110 V) 3 Poles in Series, 60 °C 100 A (110 V) 3 Poles in Series, 70 °C 85 A (220 V) 3 Poles in Series, 40 °C 125 A (220 V) 3 Poles in Series, 60 °C 100 A (220 V) 3 Poles in Series, 70 °C 85 A (72 V) 1-Pole, 40 °C 125 A (72 V) 1-Pole, 60 °C 100 A (72 V) 1-Pole, 70 °C 85 A (72 V) 2 Poles in Series, 40 °C 125 A (72 V) 2 Poles in Series, 60 °C 100 A (72 V) 2 Poles in Series, 70 °C 85 A (72 V) 3 Poles in Series, 40 °C 125 A (72 V) 3 Poles in Series, 60 °C 100 A (72 V) 3 Poles in Series, 70 °C 100 A

	(72 V) 3 Poles in Series, 70 °C 85 A
额定工作电流 DC-13 (I _e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
额定绝缘电压 (U _i)	acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
额定冲击耐受电压 (U _{imp})	8 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 250 ... 500 V 60 Hz 250 ... 500 V DC Operation 250 ... 500 V
工作时间	Between Coil De-energization and NC Contact Closing 19 ... 105 ms Between Coil De-energization and NO Contact Opening 17 ... 100 ms Between Coil Energization and NC Contact Opening 38 ... 95 ms Between Coil Energization and NO Contact Closing 42 ... 100 ms
安装到DIN导轨上	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
螺钉安装（螺钉须自备）	2 x M4 or 2 x M6 screws placed diagonally
主电路连接容量	Flexible with Ferrule 1/2x 6 ... 50 mm ² Flexible with Insulated Ferrule 1/2x 6 ... 50 mm ² Rigid Stranded 1x 6 ... 70 mm ² Rigid Stranded 2x 6 ... 50 mm ²
辅助电路连接容量	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 2.5 mm ²
控制电路连接容量	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid 1/2x 1 ... 2.5 mm ²
剥线长度	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 17 mm
防护等级	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
端子类型	Screw Terminals

UL/CSA适用的技术参数

NEMA尺寸	3
Continuous Current Rating NEMA	90 A
Horsepower Rating NEMA	(200 V AC) Three Phase 25 Hp (230 V AC) Three Phase 30 Hp (460 V AC) Three Phase 50 Hp (575 V AC) Three Phase 50 Hp
最高工作电压UL/CSA	Main Circuit 600 V
通用等级UL/CSA	(600 V AC) 105 A
额定功率UL/CSA	(120 V AC) Single Phase 7-1/2 hp (200 ... 208 V AC) Three Phase 25 hp (220 ... 240 V AC) Three Phase 30 hp (240 V AC) Single Phase 15 hp (440 ... 480 V AC) Three Phase 60 hp (550 ... 600 V AC) Three Phase 75 hp
主电路连接容量 UL/CSA	Rigid Stranded 1/2x 6-1 AWG

拧紧力矩UL/CSA

Auxiliary Circuit 11 in-lb
Control Circuit 11 in-lb
Main Circuit 53 in-lb

环境条件

周围环境温度	Close to Contactor Fitted with Thermal O/L Relay -40 ... 70 °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
抗机械冲击符合IEC 60068-2-27标准	Closed, Shock Direction: A 25 g Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g Open, Shock Direction: B1 5 g
耐振动符合IEC 60068-2-6标准	3g Closed Position & 3g Open Position 5 ... 300 Hz

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	1SBD250584E2000
产品中可持续材料含量 (重量%)	Recycled Metal - 28.2 %
包装中的可持续材料含量 (重量%)	FSC Recycled Paper - 94.6 %
产品寿命终止后的拆解指南	1SBC101081M6801

认证及声明（文件编码）

ABS认证	ABS_20-2060694-PDA
BV认证	BV_2634H36994B1
CB认证	CB_SE-113142A1
CCC认证	CQC_2013010304646569
Declaration of Conformity - CCC	2020980304001255
符合性声明 - CE	1SBD250000U1000
Declaration of Conformity - UKCA	1SBD250031U1000
DNV认证	DNV_TAE00001AF-4
KC认证	KC_HW02016-15011C

LR认证	LRS_LR23403517TA-02
RINA认证	RINA_ELE084013XG
RMRS认证	RMRS_1802705280
UL认证	UL-US-L312527-1141-10303102-9 UL-CA-L312527-4141-10303102-9
UL列表卡	UL_E312527

包装信息

1级包装单元	box 1 piece
1级包装宽度	180 mm
1级包装长度	150 mm
1级包装高度	102 mm
1级包装 总重	1.36 kg
1级包装 EAN	3471523133143
2级包装单元	box 6 piece
2级包装宽度	250 mm
2级包装长度	300 mm
2级包装高度	300 mm
2级包装 总重	8.16 kg
3级包装单元	144 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 >> lec Contactors
E-Number (Finland)	3707133

分类

低压产品及系统 → 控制产品 → 接触器 → 模块化接触器 → AF Contactors → AF80

