



PRODUCT-DETAILS

AF140-30-11-11

AF140-30-11-11 Contactor



360°

概要信息	
产品型号	AF140-30-11-11
产品ID	1SFL447001R1111
欧洲商品编号(EAN)	7320500477069
目录说明	AF140-30-11-11 Contactor
详细描述	The AF140-30-11-11 is a 3 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and double clamp, controlling motors up to 75 kW / 400 V AC (AC-3) or 100 hp / 480 V UL and switching power circuits up to 200 A (AC-1) or 200 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	1SBC100214C0202
说明书和手册	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201
尺寸图	1SFB535001G1051

尺寸	
产品净宽	90 mm
产品净深	126 mm
产品净高	150 mm
产品净重	1.55 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	1
辅助触点NC数量	1
额定工作电压	Main Circuit 690 V
额定频率 (f)	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 200 A
额定工作电流 AC-1 (I _e)	(690 V) 40 °C 200 A (690 V) 70 °C 160 A
额定工作电流 AC-3 (I _e)	(415 V) 55 °C 140 A (440 V) 55 °C 140 A (500 V) 55 °C 130 A (690 V) 55 °C 80 A (380 / 400 V) 55 °C 140 A (220 / 230 / 240 V) 55 °C 140 A
额定工作电流 AC-3e (I _e)	(415 V) 60 °C 140 A (440 V) 60 °C 140 A (500 V) 60 °C 130 A (690 V) 60 °C 80 A (380 / 400 V) 60 °C 140 A (220 / 230 / 240 V) 60 °C 140 A
额定工作功率 AC-3 (P _e)	(415 V) 75 kW (440 V) 90 kW (500 V) 90 kW (690 V) 75 kW (380 / 400 V) 75 kW (220 / 230 / 240 V) 37 kW
额定工作功率 AC-3e (P _e)	(415 V) 75 kW (440 V) 90 kW (500 V) 90 kW (690 V) 75 kW (380 / 400 V) 75 kW (220 / 230 / 240 V) 37 kW
额定分断容量AC-3符合IEC60497-4-1标准	8 x I _e AC-3
Rated Breaking Capacity AC-3e	8.5 x I _e AC-3e
额定接通容量AC-3符合IEC 60947-4-1标准	10 x I _e AC-3
Rated Making Capacity AC-3e	12 x I _e AC-3e
短路保护设备	gG Type Fuses 315 A

额定不间断电流 (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A
最大分断容量	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 1500 A
最高电气切换频率	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
额定工作电流 DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
额定工作电流 DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
额定工作电流 DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
额定绝缘电压 (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
额定冲击耐受电压 (U _{imp})	Main Circuit 8 kV
机械寿命	5 million
最高机械切换频率	300 cycles per hour
线圈操作极值	(acc. to IEC 60947-4-1) 0.85 x U _c Min. ... 1.1 x U _c Max. (at θ ≤ 70 °C)
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
线圈功耗	Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V-A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V-A Pull-in at Max. Rated Control Circuit Voltage DC 210 W
工作时间	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
主电路连接容量	Flexible 1 x 10 ... 70 mm ² Rigid Cu-Cable 2 x 10 ... 95 mm ²
辅助电路连接容量	Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 1x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 4 mm ²
防护等级	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
端子类型	Double Clamp

UL/CSA适用的技术参数

NEMA尺寸	4
Continuous Current Rating NEMA	135 A
Horsepower Rating NEMA	(200 V AC) Three Phase 40 Hp (230 V AC) Three Phase 50 Hp (460 V AC) Three Phase 100 Hp (575 V AC) Three Phase 100 Hp
最高工作电压UL/CSA	Main Circuit 600 V
通用等级UL/CSA	(600 V AC) 200 A
额定功率UL/CSA	(200 V AC) Three Phase 40 hp (208 V AC) Three Phase 40 hp (220 ... 240 V AC) Three Phase 50 hp (440 ... 480 V AC) Three Phase 100 hp (550 ... 600 V AC) Three Phase 125 hp

环境条件	
周围环境温度	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C Close to Contactor for Storage -40 ... 70 °C
允许的最高工作海拔	Without Derating 3000 m

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	
ABB EcoSolutions	是
产品环境声明 - EPD	1SFC100092D0201
根据EN45555标准的产品可回收率（%）	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
产品中可持续材料含量（重量%）	Recycled Metal - 37 %
Group Waste to Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility
提高客户的能源效率	Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line
产品寿命终止后的拆解指南	1SFC100112M0001

认证及声明（文件编码）	
A2L Certificate – UL	9AKK108468A6693
ABS认证	14-LD1092198-PDA
BV认证	BV_36353_A0BV
CB认证	SEMKO_SE-70479M1
CCS认证	GB14T00030
CQC认证	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304
符合性声明 - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
DNV认证	DNV_E-14043
DNV GL Certificate	DNV_E-14043
EAC认证	9AKK107046A8618
GL认证	DNV_E-14043
LR认证	LR_14_70011(E1)
PRS认证	TE_2092_880423_16
RINA认证	ELE060313XG_002

RMRS认证	9AKK107045A6978
UL认证	20120925-E36588
UL列表卡	UL_E36588

包装信息

1级包装单元	box 1 piece
1级包装宽度	207 mm
1级包装长度	216 mm
1级包装高度	150 mm
1级包装 总重	1.75 kg
1级包装 EAN	7320500477069

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)	3706186
E-Number (Norway)	4117620

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SFN034403R1000	VM140/190 Mechanical Interlock Unit	VM140/190	1	piece
1SFN074203R1000	LY140 Connecting Strip	LY140	1	piece
1SFN074207R1000	LW140 Terminal Enlargement	LW140	1	piece
1SFN074208R1000	LD146-30 Connection Module	LD146-30	1	piece
1SFN074210R1000	LX140 Terminal Extension	LX140	1	piece
1SFN074211R1000	LL146-30 Connection Socket	LL146-30	1	piece
1SFN084206R1000	BEA140/XT2 Connection Set	BEA140/XT2	1	piece
1SFN084206R1001	BEA140/XT4 Connection Set	BEA140/XT4	1	piece
1SFN084206R1002	BEA140/XT3 Connection Set	BEA140/XT3	1	piece
1SFN084211R1000	BER140-4 Connection Set	BER140-4	1	piece
1SFN084214R1000	BEP140-30 Connection Set	BEP140-30	1	piece
1SFN084413R1000	BEY140-4 Connection Set	BEY140-4	1	piece
1SFN094200R1000	PR146-1 Adapter Plate	PR146-1	1	piece
1SFN124203R1000	LT140-30L Terminal Shroud	LT140-30L	1	piece
1SFN074208R2000	LD146-40 Connection Module	LD146-40	1	piece
1SFN074211R2000	LL146-40 connection sockets kit	LL146-40	1	piece
1SFN084214R2000	BEP140-40 Connection Set	BEP140-40	1	piece
1SFN124203R2000	LT140-40L Terminal Shroud	LT140-40L	1	piece

分类

低压产品及系统 → 控制产品 → 接触器 → 模块化接触器 → AF Contactors → AF140



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