



PRODUCT-DETAILS

NF53E-13

NF53E-13 100-250V50/60HZ-DC Contactor Relay



概要信息	
产品型号	NF53E-13
产品ID	1SBH137001R1353
欧洲商品编号(EAN)	3471523100633
目录说明	NF53E-13 100-250V50/60HZ-DC Contactor Relay
详细描述	The NF53E-13 is a 690 V IEC or 600 UL 8-pole contactor relay with screw terminals, used for switching auxiliary and control circuits. Thanks to the AF technology, the contactor relay 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. NF contactor relays have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. These contactor relays include mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and are side-marked with the "Mechanically Linked" symbol.
订货信息	
最小起订量	1 piece

Popular Downloads	
数据手册，技术资料	1SBC100214C0202
说明书和手册	1SBC101027M6801
CAD Dimensional Drawing	2CDC001079B0201

尺寸	
产品净宽	45 mm
产品净深	110.5 mm
产品净高	86 mm
产品净重	0.32 kg

技术参数	
辅助触点NO数量	5
辅助触点NC数量	3
标准	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13
额定工作电压	Auxiliary Circuit 690 V
额定频率 (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
额定发热电流（自由空气）(I _{th})	acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
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})	for 0.1 s 140 A for 1 s 100 A
最高电气切换频率	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
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 60947-5-1 690 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	6000 cycles per hour
额定控制电路电压 (U _c)	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 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
辅助电路连接容量	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

控制电路连接容量	Rigid Solid 1/2x 1 ... 2.5 mm ²
	Rigid Stranded 1/2x 1 ... 2.5 mm ²
	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
剥线长度	Rigid Solid 1/2x 1 ... 2.5 mm ²
	Rigid Stranded 1/2x 1 ... 2.5 mm ²
	Auxiliary Circuit 10 mm
防护等级	Control Circuit 10 mm
	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
端子类型	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
	Screw Terminals

UL/CSA适用的技术参数

辅助电路连接容量	Rigid Solid 1/2x 18-14 AWG
UL/CSA	Rigid Stranded 1/2x 18-14 AWG
拧紧力矩UL/CSA	Auxiliary Circuit 11 in-lb
	Control Circuit 11 in-lb

环境条件

周围环境温度	Close to Contactor for Storage -60 ... +80 °C
	Near Contactor for Operation in Free Air -40 ... 70 °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: B1 25 g
	Open, Shock Direction: B1 5 g
	Shock Direction: A 30 g
	Shock Direction: B2 15 g
	Shock Direction: C1 25 g
	Shock Direction: C2 25 g
耐振动符合IEC 60068-2-6标准	4g Closed Position & 2g 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	1SBD250584E3000
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）

ABS认证	ABS_20-2060694-PDA
BV认证	BV_2634H24899C0
CB认证	CB_SE-93051M2
CCC认证	2020980303000185
CQC认证	CQC2019010303267993
Declaration of Conformity - CCC	CQC2011010303465426
符合性声明 - CE	1SBD250005U1000
Declaration of Conformity - UKCA	1SBD250036U1000
DNV认证	DNV_TAE00001BV-5
EAC认证	EAC_RU C-FR ME77 B03544
GOST认证	GOST_POCCFR.ME77.B06804.pdf
LR认证	LRS_LR2003684TA-02
RINA认证	RINA_ELE142224XG
RMRS认证	RMRS_1802702280
UL认证	UL_20180227_E252354_2_1
UL列表卡	UL_E252354

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	113 mm
1级包装高度	47 mm
1级包装 总重	0.32 kg
1级包装 EAN	3471523100633
2级包装单元	box 18 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	11.52 kg
3级包装单元	864 piece

分类

对象分类代码	K
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
e级	V11.0 : 27371001
UNSPSC	39121529
IDEA 粒度分类代码 (IGCC)	4763 >> Power contactor, DC switching
E-Number (Finland)	3706429

分类

低压产品及系统 → 控制产品 → 接触器 → 模块化接触器 → NF Contactor Relays

