

FEATURES特点

- UL, CE, TUV & CQC safety approval.
UL, CE, TUV 及 CQC 安规认证.
- Single contact 953 series relay offers 30A switching capacity for various kinds of applications.
单触点953系列继电器提供30安培转换能力,适用于多种产品
- Both PCB terminal & Quick Connect Terminal for contacts.
有电路板端子及快接端子供安装连接
- UL class F coil insulation type available.
可提供UL class F线圈绝缘型



UL FILE NO.: E162117

TUV FILE NO.: R02158203

CQC FILE NO.: CQC02001001783

CONTACT RATING 触点参数

Contact Form 接口形式	1A SPST-NO	1B SPST-NC	1C SPDT	
			NO	NC
Max. Switching Power 最大切换功率	7500VA(30A) 600W (20A)	4800VA 300W	7500VA600W	
Max. Switching Voltage 最大切换电压	250VAC 30VDC	250VAC 20VDC	250VAC 30VDC	
Max. Switching Current 最大切换电流	30A	20A	30A	
Min. Switching Current/Voltage 最小切换电流/电压	100mA 5VDC			
Rating Load(Resistive) 额定负载(阻性)	20A / 277VAC 20A / 30VDC 30A / 250VAC	15A / 277VAC 20A / 240VAC 10A / 30VDC	20A / 277VAC 30A / 240VAC 20A / 30VDC	15A / 277VAC 30A / 240 VAC 10A / 30VDC
Contact Material 接口材质	Ag Alloy 银合金			

CHARACTERISTICS 性能参数

Electrical Life 电气寿命	1×10^5
Mechanical Life 机械寿命	1×10^7
Insulation Resistance 绝缘阻抗	Min. 500M Ω 500VDC
Contact Resistance(Initial) 接口电阻	$\leq 100m\Omega$
Operate Time 动作时间	$\leq 15ms$
Release Time 开放时间	$\leq 10ms$
Initial Dielectric Strength 耐压	between open contact 开放接口间: 50/60Hz 1500VAC 1min. between contacts and coil 接口与线圈间: 50/60Hz 2500VAC 1min.



953E系列继电器SERIES RELAY

Vibration Resistance 耐振动	Malfuction: 误动作:	10 ~ 55Hz Double Amplitude双振幅1.5mm
	Damage limits: 耐久:	10 ~ 55Hz Double Amplitude双振幅1.5mm
Shock Resistance 耐冲击	Malfuction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-40°C ~ +85°C (No freezing 无结冰)	
Relative Humidity相对湿度	85% at 40°C	
Unit Weight单位重量	约Approx. 28g	

ORDERING INFORMATION型号代码说明

953-1C-12 D E F 1 2 3 4 5 6					
1. Model Number 型号 2. Contact Arrangement 接点形式 1A = 1 Form A 1组常开 1C = 1 Form C 1组转换 3. Coil Voltage 线圈电压 5 ~ 110VDC 6 ~ 220VAC			4. Coil Type 线圈形式 D=DC直流 A=AC交流 5. Enclosure Connect Type 密封连接形式 E =Double Connect III Type双连接 III 型 6. Type of Insulation 绝缘形式 Nil = Class B F = Class F		

COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

COIL TYPE 线圈形式	Coil Nominal Voltage 线圈额定电压 (V)	Coil Resistance 线圈阻抗 ($\Omega \pm 10\%$)	Pick-Up Voltage 动作电压(V) (Max)	Drop-Out Voltage 开放电压(V) (Min)	Nominal Current 额定电流 (mA)
DC Standard Coils 直流标准线圈 (abt. 0.9W)	5	27	3.75	0.5	185
	6	40	4.5	0.6	150
	9	97	6.75	0.9	93
	12	155	9	1.2	77
	18	380	13.5	1.8	47
	24	660	18	2.4	36
	36	1440	27	3.6	25
	48	2560	36	4.8	19
AC Coils 交流线圈 (abt. 1.2VA~1.8VA)	6	10	5.1	0.6	
	12	43	10.2	1.2	
	24	160	20.4	2.4	
	110	3160	93.5	11	
	220	13490	187	22	

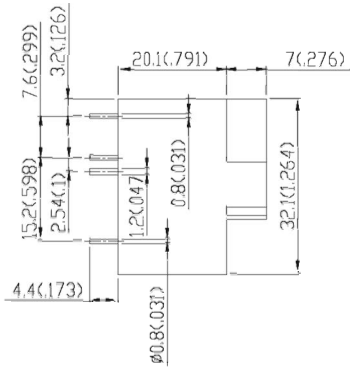
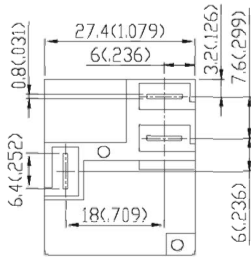
* Max Continuous Voltage at 20°C: 130% of Coil Normal Voltage. 最大使用电压在20°C:线圈额定电压的130%

* AC coils Max continuous Voltage at 20°C 110% 交流线圈最大使用电压在20°C:线圈额定电压的110%

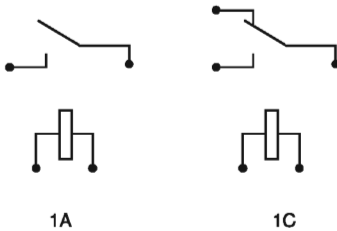
OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)

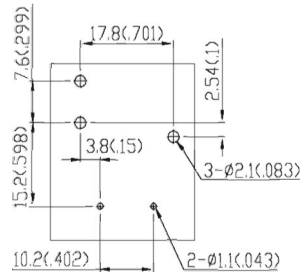
Dimensions尺寸



Internal Connections 接线图
(Bottom View 底视图)



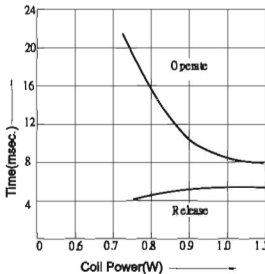
Drilling Plan 孔位图
(Bottom View 底视图)



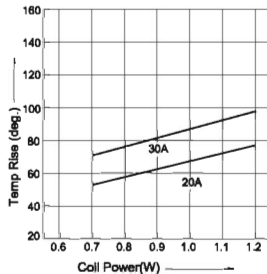
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

953E Reference Data 参考资料

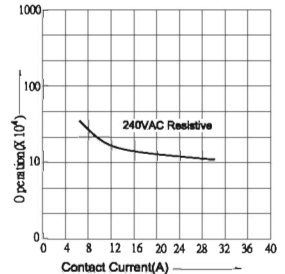
Timing



Coil Temperature Rise



Life Curves





953E系列继电器SERIES RELAY

SAFETY STANDARD安规认证

●UL APPROVAL UL 认证

Contact Form 接点形式	1 A	1B	1C	
			NO	NC
Rating Load(Resistive) 额定负载(阻性)	20A / 277VAC 20A / 30VDC	15A / 277VAC 10A / 30VDC	19.8A / 277VAC 30A / 240VAC	19.8A / 277VAC 30A / 240VAC
General Purpose Load 通用负载	15A / 277VAC	8A / 277VAC	—————	—————
Motor Load 电机负载	16.0FLA / 96.0LRA 240VAC	10.0FLA / 58.0LRA /240VAC	—————	—————
Horse Power 马力	FLA 12 / 250VAC 2HP FLA 16 / 125VAC 1HP	FLA 4.9 / 250VAC 1/2HP FLA 5.8 / 125VAC 1/4HP	FLA11.2 / LRA67.2 FLA10.3 / LRA61.8	
Ballast 镇流负载	—————	—————	20A	
Coil Voltage 线圈电压	5 – 110 VDC 6 – 220 VAC			

●TUV APPROVAL TUV 认证

Contact Form 接点形式	1 A	1B	1C	
			NO	NC
Rating Load(Resistive) 额定负载(阻性)	30A / 250VAC 20A / 30VDC	10A / 250VAC 10A / 30VDC	30A / 250VAC 20A / 30VDC	10A / 250VAC 10A / 30VDC
Inductive Load 感性负载 (L/R: 7ms)	10A / 30 VDC	8A / 30VDC	10A / 30VDC	8A / 30VDC
Coil Voltage 线圈电压	DC: 5V,6V,9V,12V,18V,24V, 48V,110V AC: 6V,12V,24V,110V, 220V			

●CQC APPROVAL CQC 认证

Contact Form 接点形式	1 A	1B	1C	
			NO	NC
Rating Load(Resistive) 额定负载(阻性)	30A / 240VAC	20A / 240VAC	30A / 240VAC	20A / 240VAC
Coil Voltage 线圈电压	DC: 5V,9V,12V, 24V, 36V,48V AC: 110V, 220V			