

AUTOMOTIVE RELAY 汽车继电器

TRF

- 30A switching capability 30A 触点切换能力
- Plastic sealed and dust protected types available
塑封型和防尘罩型可供选择
- RoHS Compliant 符合 RoHS 标准



■CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H/1Z
Contact Material 触点材料	Silver Alloy 银合金
Load 负载	Resistive load 阻性负载 ($\cos \Phi=1$)
Contact Ratings 触点负载	1H: 30A 14VDC 1Z: 30/20A 14VDC
Max. Switching Voltage 最大切换电压	27VDC
Max. Switching Current 最大切换电流	30A
Max. Switching Power 最大切换功率	420W
Contact Resistance 接触电阻	$\leq 100\text{m}\Omega$ (6VDC 1A)
Electrical Endurance 电耐久性	1×10^5 OPS(at 6 OPS/min) 1×10^5 次(6次/分钟)
Mechanical Endurance 机械耐久性	1×10^7 OPS(at 300 OPS/min) 1×10^7 次(300次/分钟)

■CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻		100M Ω Min. at 500VDC
Dielectric Strength 介质耐压	Between Open Contacts 触点间	500VAC 1 min
	Between Contacts and Coil 触点与线圈间	500VAC 1 min
Operate Time 动作时间		≤15ms
Release Time 释放时间		≤10ms
Ambient Temperature 环境温度		-40℃ ~ +85℃
Shock Resistance 冲击		10G
Vibration Resistance 振动		10~55Hz, 1.5mm DA 双振幅
Humidity 湿度		20 ~85%
Unit Weight 重量		Approx. 14g 约14克

■COIL DATA 线圈参数 (at 23°C)

Rated Voltage 额定电压 (VDC)	12	12	24	24
Coil Resistance 线圈电阻 ($\Omega \pm 10\%$)	90	90	360	360
Parallel Resistance 并联电阻 ($\Omega \pm 5\%$)	/	680	/	2700
Equivalent Resistance 等效电阻 ($\Omega \pm 10\%$)	/	79.5	/	317.6
Rated Current 额定电流(mA)	133	151	67	76
Max. Operate Voltage 最大动作电压 (VDC)	8.0	8.0	16.0	16.0
Min. Release Voltage 最小释放电压 (VDC)	1.0	1.0	2.0	2.0
Coil Power 线圈功耗(W)	1.6	1.8	1.6	1.8
Max. Voltage 最大电压	15.6	15.6	31.2	31.2

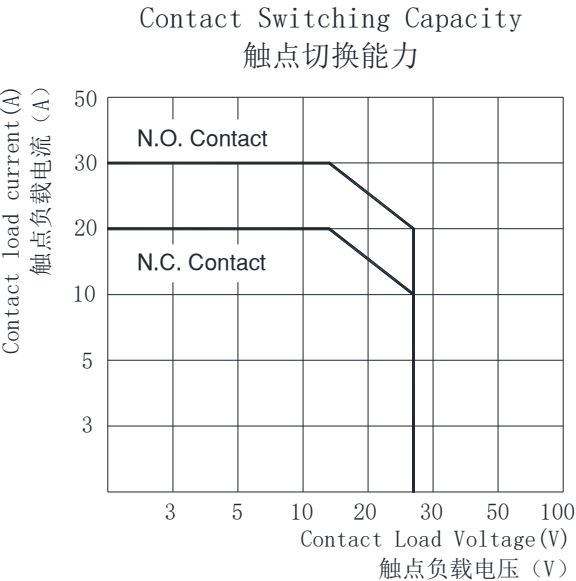
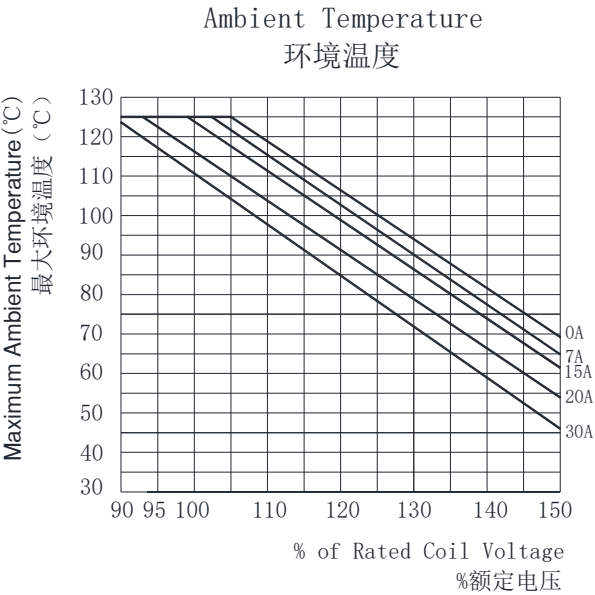
Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

备注：最大电压是指继电器线圈在短时间内能够承受的最大电压值。

■ORDERING INFORMATION 订货标记示例

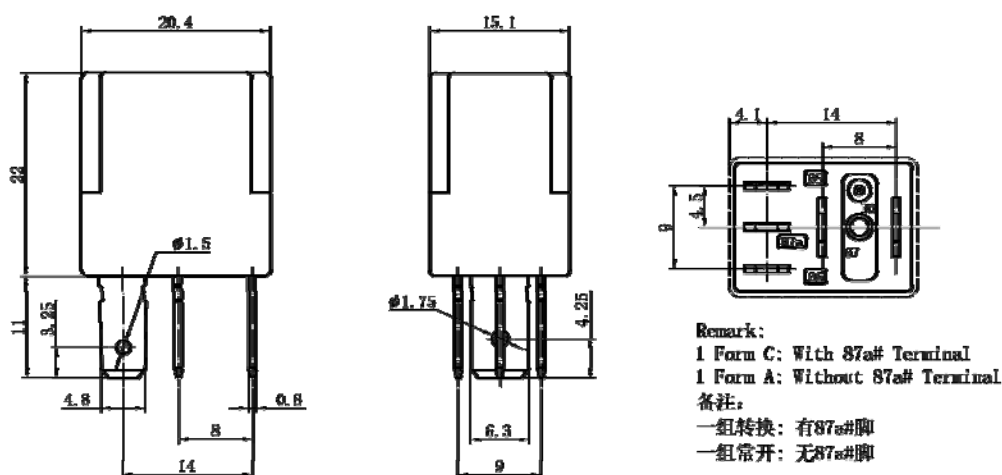
		TRF	L	-S	-H	R	/12VDC	/XX
Type 型号								
Coil Power 线圈功耗	L: Standard Type L: 标准型							
Construction 封装方式	S: Plastic Sealed S: 塑封型							
Contact Arrangement 触点形式	H: 1 Form A Z: 1 Form C H: 一组常开 Z: 一组转换							
Parallel Coil Components 线圈并联元件	R1: Parallel transient suppression resistors D1: Parallel transient suppression diode, with anode connected to terminal 85# D2: Parallel transient suppression diode, with anode connected to terminal 86# Nil: Without parallel components R: 并联瞬态抑制电阻 D1: 并联瞬态抑制二极管，二极管正极接 85#脚 D2: 并联瞬态抑制二极管，二极管正极接 86#脚 Nil: 无并联元件							
Coil Voltage 线圈电压	12, 24 VDC							
Special Code 特性号	XX: Customer Special Requirement Nil: Standard Type XX: 客户特殊要求 无: 标准型							

■CHARACTERISTIC CURVES 性能曲线图

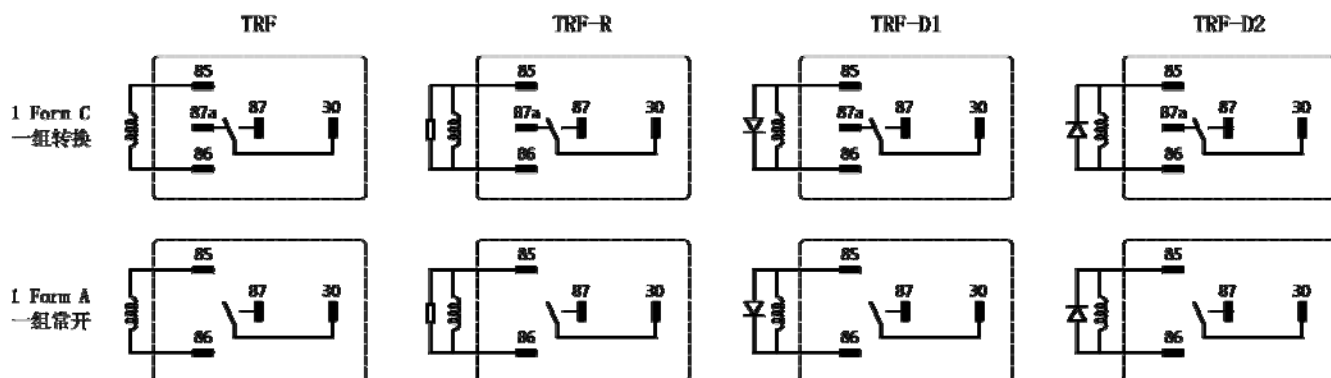


■OUTLINE DIMENSIONS, WIRING DIAGRAM 外形图、接线图

Outline Deminsions 外形图



Wiring Diagram 接线图
(Bottom View 底部视图)



备注：产品部分外形尺寸中未注尺寸公差：当外形尺寸 $\leq 1\text{mm}$ 时，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。

Remark: In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $>1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $>5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

声明:

本产品规格书仅供客户使用时参考，如有更改，恕不另行通知。

Disclaimer:

The specification is for reference only. Specification subject to change without notice.