

汽车继电器

TRV4

- 40A continuous rating 85°C
- Plug-in or PC board terminals
- Optional mounting bracket
- Conform to ROHS,ELV directive



ORDERING CODE 订购代码

TRV4	L	12V (D1)	Z	F	P	
1	2	3	4	5	6	7
1. Relay Model 继电器型号	2. Coil Power 线圈功率	3. Coil Nominal Voltage 线圈额定电压	4. Nil: Standard (标准)	5. 触点转换形式	6. F: WITH BRACKET(有背)	7. P: PCB Type
	D=1.9W; L=1.6W	6, 12, 24VDC	R1: Coil parallel with 1/2W resistor 680 Ω for Coil voltage 12VDC	Z: Form C	Nil: WITHOUT BRACKET(无背)	Nil: B Type
			Coil parallel with 1/2W resistor 2700 Ω for coil voltage 24VDC	H: Form A		
			D1/D2: With diode(详见安装图)	D: Form B		
				U: Form U		

COIL DATA 线圈参数 (at 20°C)

Nominal Voltage额定电压(VDC)	6	12	24	
Coil Resistance线圈阻值(Ω ±10%)	23	90	360	
Rated Current额定电流(mA)	267	133	67	1.6W
Max Operate Voltage 最大吸合电压(VDC)	3.9	7.8	15.6	
Min Release Voltage最小释放电压(VDC)	0.6	1.2	2.4	
Coil Resistance线圈阻值(Ω ±10%)	19	76	300	
Rated Current额定电流(mA)	317	158	79	1.9W
Max Operate Voltage 最大吸合电压(VDC)	3.9	7.8	15.6	
Min Release Voltage最小释放电压(VDC)	0.6	1.2	2.4	
Max Applicable Voltage 最大过载电压	70°C时额定电压的130%, 23°C时额定电压的170%			

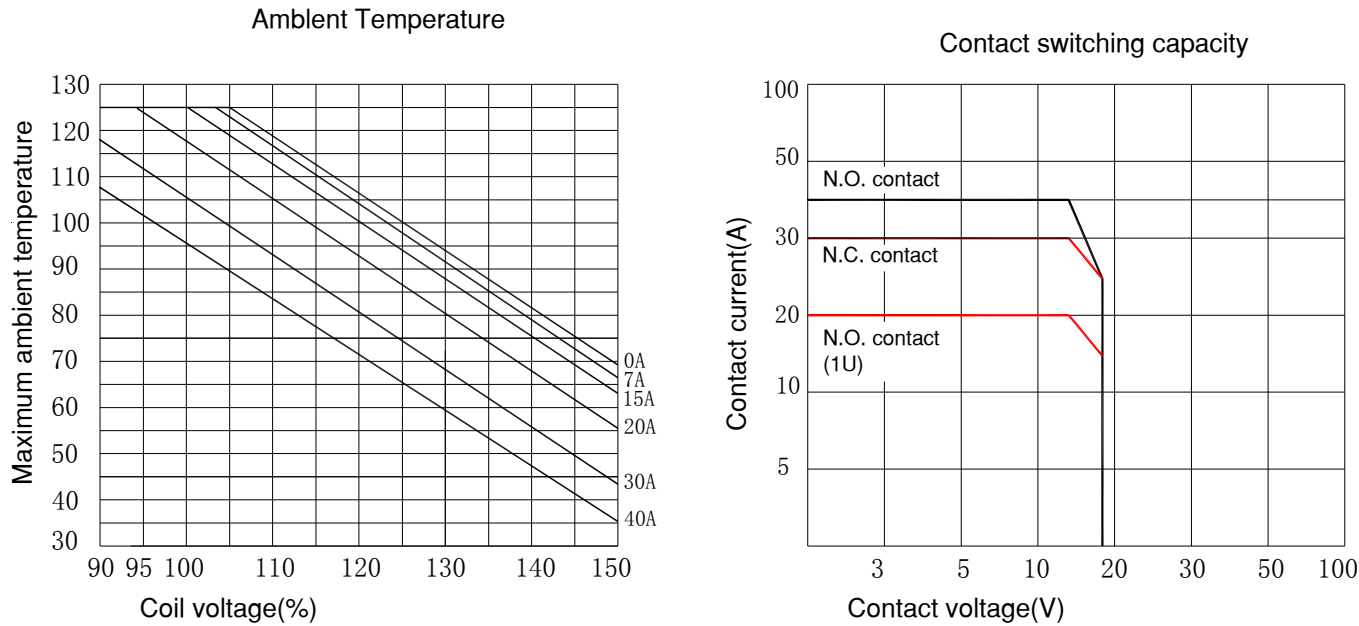
CONTACT DATA 触点参数

Contact Form触点形式	1Z/1H/1D/1U
Contact Material触点材料	Silver Alloy
Load负载	Resistive load (COS Φ 1)
Contact Ratings触点负载	NO: 40A 14VDC , 2X20A 14VDC (1U) NC: 30A 14VDC
Max Switching Voltage最大转换电压	30VDC
Max Switching Current最大转换电流	40A
Max Switching Power 最大转换功率	560W
Contact Resistance接触电阻	100m Ω Max at 6VDC 1A
Life Expectancy寿命	Electrical 电气寿命: 100,000 Operations(at30 Operations/minute) Mechanical机械寿命: 10,000,000 Operations(at300 Operations/minute)

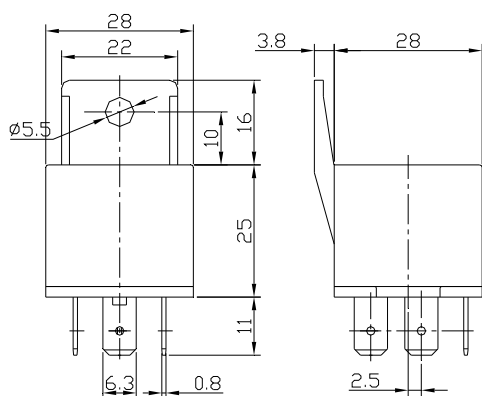
CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	100M Ω Min at 500VDC
Dielectric Strength Between Open Contacts触点间耐压	500VAC(for one minute)
Between Contacts and coil触点与线圈间耐压	750VAC(for one minute)
Operate Time吸合时间	10ms
Release Time释放时间	10ms
Temperature Range环境温度	-40℃to+85℃
Shock Resistance冲击	Operating Extremes动作极限: 10G
	Damage Limits破坏极限: 20G
Vibration Resistance振动	10-40Hz, 1.5mm
Max. switching frequency最大转换频率	Mechanical:18,000operations/hr
	Electrical:1,800operations/hr
Humidity湿度	40-85%
Weight重量	Approx 40g

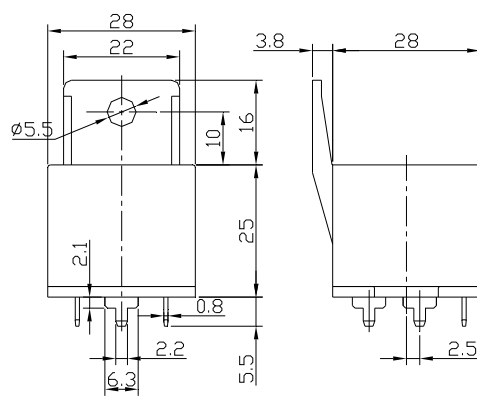
ENGINEERING DATA 设计参数



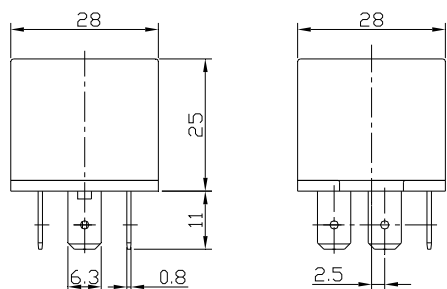
OVERALL AND MOUNTING DIMENSIONS 安装图



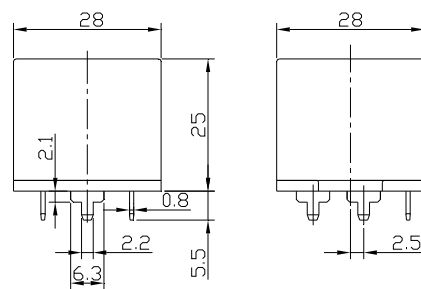
有背外形尺寸（快连接式）



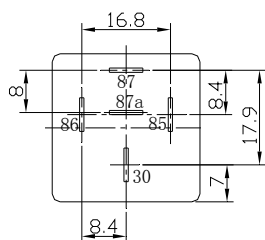
有背外形尺寸（PCB式）



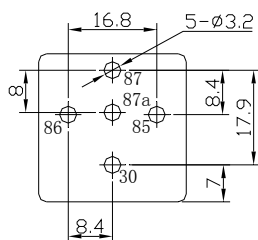
无背外形尺寸（快连接式）



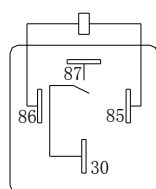
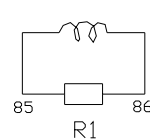
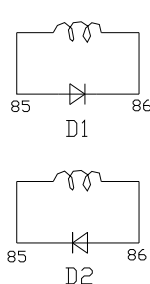
无背外形尺寸（PCB式）



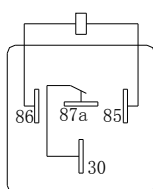
安装图（快连接式）



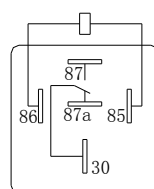
安装图（PCB）



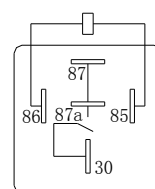
1A
接线图



1B
接线图



1C
接线图



1U
接线图

备注：1）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 $\pm 0.4\text{mm}$ 。

2）安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

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。

Таблица возможной замены реле

силовые реле

HONGFA	TIANBO	SONGLE	HELISUN	OMRON
HF3FF	HJR-3FF	SRD(T73)	HLS8-T73	G5L
HF10FF-2			HLS-MK2P	MK2
HF10FF-3Z			HLS-MK3P	MK3
HF13F			HLS-13F	
HF18FF	HJQ-22		HLS-4453(18F)-4	MY4
HF21FF	HJR-21FF	SRU(22F)	HLS8-22F	G5L-E
HF32F	TRG1	SRSB	HLS-32F	835/835NL
HF32FA/32FA-T	TRG1	SRSB	HLS-32F	835/835NL
HF32FA-G	TRG1	SRSB	HLS-32F	835/835NL
HF33F	TRG2	SRSC	HLS-33F	G5SB
HF62F	TRA2F	SMIH(14FHA)	HLS-14FK	G5J
HF46F/HF46F-G	TRGB			202/202H
HF49FD				G5J
HF102F	TRAF		HLS-102F	G4A
HF115F	TRC2	SMIH(14FH)	HLS-14F2	G2RL
HF115FP	TRC3	SMIH(14FH)	HLS-14F3	
HF140FF	TRA3		HLS-14F	G2R/G2RG
HF13F	HJQ-13F-2C	SMB(13F)	HLS-13F-2	LY2
HF2100	HJQ-15F-1	SLC(T91)	HLS-T91(16F)-1	G7G
HF105F - 4	HJQ-15F-3	SLCH(T92)		
HF105F-1	HJQ-15F	SLA(T90)	HLS-T90(15F)	G8P
HF2160	HJQ-15F-2	SLI(T93)	HLS-T91(16F)-2	G7G/G8G
HF165FD	HJQ-15F	SLA	HLS-T90(15F)	G8P
JQC-21FF	HJR-21FF	SRD(T73)	HLS8-22F	
HF7FF	HJR-7FF	SRG(4123)	HLS8-T73	
HF141FF	TRA1		HLS-14F1	G2R
HF14FW	TRA2	SMIH(14FH)	HLS-14F2	G2R
HF14FF	TRA1		HLS-14F	G2R
HF36F	TRA4			
HF42F	TRA5			G5PA-2
HF8	TRDH	SRI(T72)	HLS-T72	
HF102F			HLS-102F	G4A
HLS-4453(18F)-2		SMBH(4453)	HLS-4453(18F)-2	MY2
HF18FF-3Z			HLS-4453(18F)-3	MY3

сигнальные реле

HONGFA	TIANBO	SONGLE	HELISUN	OMRON
HFD2	HJR1	SRC	HLS-4078	G5V-2
HFD4				
HFD27	HJR1-2	SRC	HLS-4078	G5V-2
HFD41	HJR4102	SRS		
HF41F			HLS6-4100H-1	G2E
HM4101F	HJR4102E			
HFD23			HLS6-23F	G5V-1

автомобильные реле

HONGFA	TIANBO	SONGLE	HELISUN	OMRON
HFKM, HFKS	TRAW	SLE(4117)	HLS-4117	
HVF6	TRFM			G8HN
HFKP	TRKP	SLB	HLS-4120	G8PE
	TRS			
	TRV3			
HFV4	TRV4	SLD	HLS-CMA3	G8JN
	TRV5			
HFV7	TRV6	SLDH	HLS-CMA3-1	G8JR
HFKW	HJR78F	SRA(T74)	HLS-T78	G8QN
			HLS-4121/4122	
HFV6		SLM	HLS-CMA6	G8H