

TIBO 天波继电器
TIANBO RELAY

TIBO 天波继电器
TIANBO RELAY

宁波天波港联电子有限公司
NINGBO TIANBO GANLIAN ELECTRONICS CO.,LTD

地址: 中国浙江省宁波市横溪工业区
Add: HengXi Industrial Zone, Ningbo, Zhejiang, China
Tel: +86-574-88069366 88069266 88063866
P.C.: 315131
Fax: +86-574-88471111
Email: tianbo@tianbo-relay.com michael@tianbo-relay.com
<http://www.tianbo-relay.com>




公司简介

宁波天波港联电子有限公司成立于1989年，成立至今一直是专业从事继电器研发、生产和销售的高新技术企业。现拥有占地面积50000平方米的防尘厂房及900余名工人，月生产能力达2500万只。

公司产品覆盖通信继电器、功率继电器、汽车继电器及磁保持继电器全系列产品，并分别通过UL、cUL、TUV、VDE、CE、SEMKO、CQC等国内外安全认证。

作为“中国电子元件百强企业”，公司致力于产品创新，工艺创新，管理创新。产品设计和模具开发由专业工程师采用CAD/CAM等专业的三维软件进行设计，现已拥有几十项各类专利，每年持续增加专利项目中；模具制造和零件生产由高精度的机床加工生产，工艺水平也位居国内同行领先水平；同时集几十年的继电器生产经验，产品的生产流程根据产品特性进行规划、开发，引进相应的自动化专业设备依产品特性加以改良，保证产品的高效和稳定的生产。公司设有专业的继电器检测、寿命实验设备和分析实验室，能对各类标准和关键特性进行测试、分析。

公司已通过了ISO9001, ISO/TS16949, ISO14001认证, 拥有一整套完整的质量保证体系, 能对产品质量进行良好的管控, 确保产品的品质和可信度。我们始终坚持以诚为本, 充分保证产品的性能和质量的稳定性, 坚持“结构符合安全, 功能符合顾客要求, 参数符合标准”推行“顾客的需求是我们创新的动力”, 从环保、稳定可靠回报社会的责任理念, 使广大用户得到高性价比的产品, 因而公司获得了“中国驰名商标”, “浙江省名牌产品”等多项社会荣誉。天波电子将持续推行“客户满意、天波发展、诚信和谐、共创美景”的服务理念, 与您携手共进, 共创美好明天。


 中国驰名商标
 China Well-known Trademark


 高新技术企业
 High-Tech Enterprise


 浙江省名牌
 Zhejiang Famous Brand


 浙江省著名商标
 Zhejiang Famous Trademark

愿景：
 成为世界一流继电器供应商。

Our Vision: To become a world-class supplier of relays.

使命：
 为电子领域做贡献，为社会和顾客创造价值。

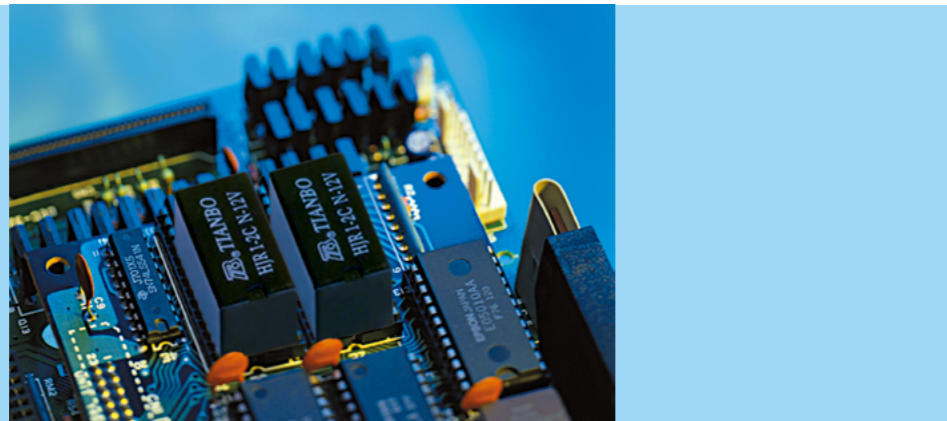
Our Vocation: To create value to the community and our customers, and make great contribution in the electronics fields.

品质理念：
 品质至上，精益求精，追求零缺陷目标。

Our Quality Concept: Pursue excellence, value the quality, and zero defect is the goal we are seeking for.

经营理念：
 “诚信创新卓越”用一流的技术，一流的产品，一流的服务，满足客户的要求，实现自我，回报社会。




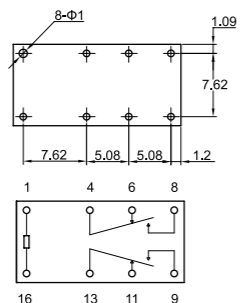
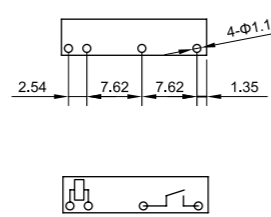
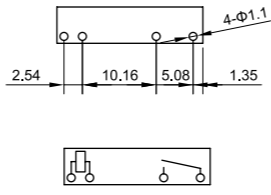
Our Management Idea: "Honesty, Innovation, Excellence" with the first-class technology, first-class products, first-class services to meet customers' needs and achieve the rewards to the community.

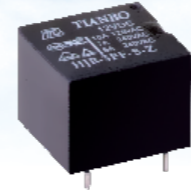
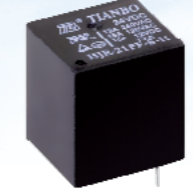


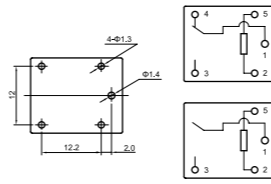
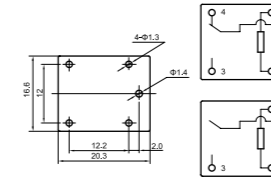
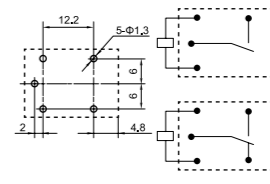
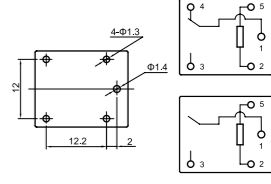


CONTENTS 目录

目录	
Contents	03 - 03
通信继电器	
Telecom Relay	04 - 05
功率继电器	
Power Relay	05 - 14
汽车继电器	
Automotive Relay	15 - 18
磁保持继电器	
Magnetic Latching Relay	18 - 19

Classification	Telecom Relay		
Type 型号	TR5V	HJR4102	HJR4102E
Appearance 图片			
Outline 外形尺寸 LxWxH(mm) 长x宽x高	12.4 x 7.4 x 10.0	15.8 x 10.8 x 11.8	15.8 x 10.8 x 11.8
Features 特性	1. Designed for thermostat modem, computer peripherals, video recording and security applications 2. Surge Strength 1500V FCC68 3. Low coil power requirement for IC compatibility 4. Terminals arranged on gird pattern 5. Designed for compact, high density mounting	1. Small size and low cost 2. DIP standard terminals 3. Surge Strength 1500V FCC68 4. Sealed type available	1. Small size and low cost 2. DIP standard terminals 3. Surge strength 1500V FCC68 4. Sealed type available
Contact Rating 触点参数			
Contact Form 触点形式	1Z	1Z	1Z
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy
Max. Operating Current 最大转换电流	2A	5A	5A
Minimum Load 最小负载	1mA 5V DC	1mA 5VDC	1mA 5VDC
Max. Operating Voltage 最大转换电压	120VAC/60VDC	240VAC/60VDC	240VAC/60VDC
Max. Operating Power 最大转换功率	240VA/48W	360VA/90W	360VA/90W
Rated Load (Resistive Load) 触点负载	1A/2A 120VAC 1A/2A 24VDC	3A 120VAC 3A 24VDC 1A250VAC	3A 120VAC 3A 24VDC 1A250VAC
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100
Coil Ratings 线圈参数			
Rated Voltage 线圈电压范围	3-24VDC	3-48VDC	3-48VDC
Nominal Operating Power 线圈功耗	150/200/360mW	200/360/450mW	200/360/450mW
General Data 一般参数			
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	1000	100	100
Dielectric Strength Between Contacts 介质耐压	400VAC	500VAC	500VAC
Dielectric Strength Between Coil and Contacts 介质耐压	1000VAC	1000VAC	1000VAC
Ambient Temperature 环境温度	-30 to +85°C	-30 to +85°C	-30 to +85°C
Operate/Release Time 吸合、释放时间	4ms/3ms	5ms/5ms	5ms/5ms
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000
Electrical Life(Min) 电气寿命	100,000	100,000	100,000
Layout (Bottom View) 安装尺寸及接线图			
Terminal Type 脚位形式	PCB	PCB	PCB
Approved Standards 安规	UL, cUL	UL, cUL, CQC, TÜV	UL, cUL, CQC, TÜV
Cross-Reference 同类产品	OMRON:G5V-1 NAIS:HY FUJITSU:SY	OMRON:G2E FUJITSU:FB211SC/MZ OEG:OUA/OUAZ TYCO:A/B201/V23101 P&B:T81	OMRON:G2E FUJITSU:FB211SC/MZ OEG:OUA/OUAZ TYCO:A/B201/V23101 P&B:T81

Classification		Power Relay		
Type 型号	HJR1-2C	TRGM	TRGA	
Appearance 图片				
Outline 外形尺寸 LxWxH(mm) 长x宽x高	20.5 x 10.0 x 11.8	20.1 x 5 x 17.5	20 x 5 x 12.5	
Features 特性	1. DPDT configuration 2. High sensitivity 3. DIP standard terminals 4. Sealed version 5. Surge strength 1500V FCC68	1. Ultra slim type with 5 mm thickness Good for high density mounting 2. Plastic sealed type	1. Slim size permits higher density mounting 2. High surge voltage (4000 V) and high breakdown voltage (2000 V)	
Contact Rating 触点参数				
Contact Form 触点形式	2Z	1H	1H	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	
Max. Operating Current 最大转换电流	2A	5A	5A	
Minimum Load 最小负载	1mA 5V DC	10mA 5VDC	10mA 5VDC	
Max. Operating Voltage 最大转换电压	240VAC/60VDC	277VAC/125VDC	250VAC/110VDC	
Max. Operating Power 最大转换功率	120VA/60W	1250VA/150W	1250VA/150W	
Rated Load (Resistive Load) 触点负载	1A120VAC 2A 24VDC	5A 250VAC 5A 30VDC	5A 250VAC 5A 30VDC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100	
Coil Ratings 线圈参数				
Rated Voltage 线圈电压范围	3-48VDC	5-24VDC	5-24VDC	
Nominal Operating Power 线圈功耗	150/200/360/450mW	120/200mW	120/180mW	
General Data 一般参数				
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	
Dielectric Strength Between Contacts 介质耐压	500VAC	750VAC	1000VAC	
Dielectric Strength Between Coil and Contacts 介质耐压	1000VAC	3000VAC	2000VAC	
Ambient Temperature 环境温度	-30 to +85°C	-40 to +85°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	8ms/4ms	10ms/5ms	6ms/3ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000@3A 30VDC/250VAC	100,000@3A 30VDC/250VAC	
Layout (Bottom View) 安装尺寸及接线图				
Terminal Type 脚位形式	PCB	PCB	PCB	
Approved Standards 安规	UL, cUL, TÜV			
Cross-Reference 同类产品	OMRON:G5V-2 NAIS:DS2Y TYCO:V23102 OEG:OVR/ORZ	NAIS:PE/PF TYCO:V23092/SNR	NAIS:PA	



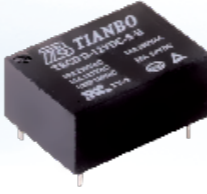
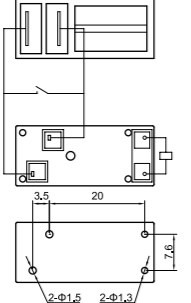
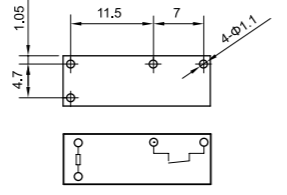
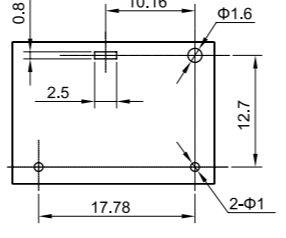
Power Relay				
HJR-3FF	HJR-21FF	HJR-21FD	HJR-7FF	
				
19.2 x 15.5 x 15.5	20.3 x 16.8 x 20.3	21.0 x 16.0 x 20.6	21.5 x 16.5 x 16.5	
1. 10A switching capability 2. Small footprint 3. Sealed type available 4. Class B/F available	1. 12A switching capability 2. SPST-NO configuration 3. Small footprint 4. Sealed version available 5. Class B/F available	1. 20A switching capability 2. TV-8 120VAC 3. Surge voltage up to 6KV 4. Ambient temperature meets 105°C 5. Product in accordance to IEC60335-1 6. RoHS compliant	1. Extremely low cost 2. SPST-NO&SPDT configurations 3. Standard PC layout 4. Sealed type available	
Contact Rating 触点参数				
1H,1Z	1H,1Z	1H/1Z	1H,1D,1Z	
Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy	
15A	15A	20A	12A	
100mA 5VDC	10mA 5VDC	100mA 5VDC	10mA 5VDC	
250VAC/30VDC	250VAC/30VDC	400VAC	250VAC/30VDC	
2,770VA/240W	2,770VA/240W	4700VA	2,770VA/240W	
1H: 10A 240VAC 12A 120VAC 1Z: 7A 240VAC 10A 120VAC 1/8HP(FLA 3.8A) 125VAC 1/8HP(FLA 1.6A) 277VAC	1H: 12A 240VAC 15A 120VAC TV-5 (5A@120VAC) 1Z: 10A 240VAC 12A 120VAC/24VDC TV-5 (5A@120VAC)	1H: 20A 125VAC 17A 277VAC 7A 400VAC 1Z: 16A 250VAC NO: 7A 400VAC	1H: 10A 240VAC 12A 120VAC 1Z: 10A 120VAC 7A 240VAC	
100	100	100	100	
Coil Ratings 线圈参数				
3-48VDC	3-48VDC	3-48VDC	3-48 VDC	
360/450mW	360/450mW	360mW	360/450mW	
General Data 一般参数				
100	100	100	100	
750VAC	750VAC	1000VAC	750VAC	
1500VAC	1500VAC	2500VAC	1500VAC	
-40 to +85°C(105°C)	-40 to +85°C	-40 to +85°C	-40 to +70°C	
10ms/5ms	10ms/5ms	10ms/5ms	10ms/5ms	
10,000,000	10,000,000	10,000,000	10,000,000	
100,000	100,000	100,000	100,000	
				
PCB	PCB	PCB	PCB	
UL, cUL, TÜV, CQC, VDE	UL, cUL, TÜV, CQC		UL, cUL	
OMRON:G5LC FUJITSU:FBR160 NAIS:JS ZETTLER:AZ943 P&B:T72	OMRON:G5L OEG:SRUDH/SRUUH SONG CHUANZ:801H	SONGCHUAN:875B MAIS:JSM	OMRON:G5LE NAIS:JS ZETTLER:AZ941/942 FUJITSU:CS OEG:PCE	



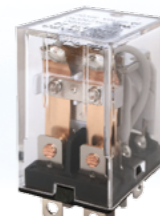

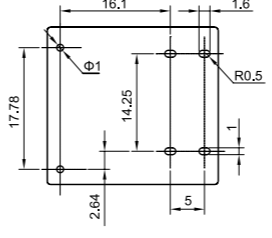
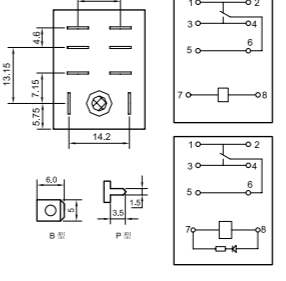
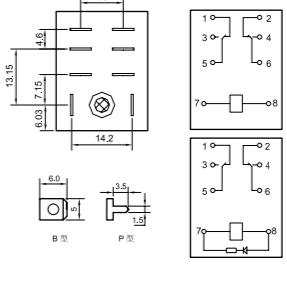
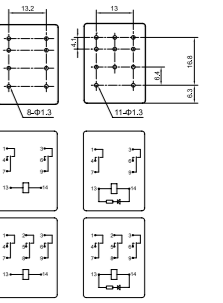
Classification		Power Relay		
Type 型号	HJR-78F	TRG1	TRG1H	
Appearance 图片				
Outline 外形尺寸 LxWxH(mm) 长x宽x高	15.7 x 12.3 x 14.0	18.2 x 10.2 x 15.5	18.2 x 10.2 x 15.5	
Features 特性	1.20A switching capability 2.Small size auto relay	1.10A switching capability 2.SPST-NO&SPDT configuration 3.Standard PC layout 4.Sealed type available	1.10A switching capability 2.SPST-NO configuration 3.Standard PC layout 4.Sealed type available 5.Surge resistance of 5000V	
Contact Rating 触点参数				
Contact Form 触点形式	1H,1Z	1H,1Z	1H	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	25A	10A	10A	
Minimum Load 最小负载	10mA 5VDC	10mA 5VDC	10mA 5VDC	
Max.Operating Voltage 最大转换电压	250VAC/16VDC	277VAC/30VDC	277VAC/30VDC	
Max.Operating Power 最大转换功率	840VA/400W	1H-D:1200VA/150W 1H-L/1Z:600VA/90W	2500VA/300W	
Rated Load (Resistive Load) 触点负载	NC/NO:12/20A 14VDC 7A 120VAC	1H-D:10A 120VAC 5A240VAC/30VDC 1H-L/1Z:3A 240VAC/30VDC	10A 250VAC 8A 240VAC(UL)	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100	
Coil Ratings 线圈参数				
Rated Voltage 线圈电压范围	6-24VDC	3-48VDC	3-24VDC	
Nominal Operating Power 线圈功耗	600/800mW	200/450mW	450mW	
General Data 一般参数				
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	
Dielectric Strength Between Contacts 介质耐压	500VAC	H:1000VAC, Z:750VAC	1000VAC	
Between Coil and Contacts	500VAC	H:4000VAC, Z:2500VAC	4000VAC	
Ambient Temperature 环境温度	- 40 to +85°C	-40 to +85°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	10ms/5ms	10ms/4ms	10ms/4ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图				
Terminal Type 脚位形式	PCB	PCB	PCB	
Approved Standards 安规	UL,cUL	UL,cUL ,CQC, TÜV	UL,cUL ,CQC, TÜV	
Cross-Reference 同类产品	OMRON:G8QN FUJITSU:FBR51	OEG:OJE/OJ SONG CHUAN:835 ZETTLER:AZ765/767	OEG:OJE/OJ SONGCHUAN:835NL	



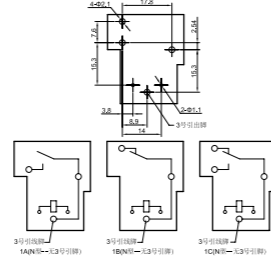
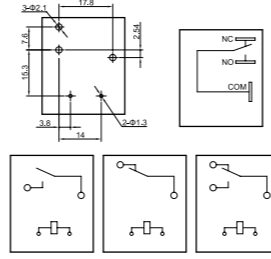
Power Relay		TRG2	TRA1	TRA1H	TRA2
		20.5 x 10.2 x 15.0	29.4 x 13 x 20.6	29.4 x 13 x 20.6	29.4 x 13 x 20.6
		1.10A switching capability 2.Creepage distance:8mm(both for 1 CO and NO) 3.Clearance distance:No type 4.5mm,Nc type 4mm 4.Subminiature standard PCB layout 5.RoHS compliant	1.10A switching capability 2.SPST-NO&SPDT configuration 3.Small footprint 4.Sealed version available 5.Transparent sealed available 6.Class B/F available	1.16A switching capability 2.SPST-NO&SPDT configuration 3. Small footprint 4.Sealed version available 5.Transparent sealed available 6.Class B/F available	1.16A switching capability 2.SPST-NO&SPDT configuration 3.5KV dielectric between coil and contacts 4.Transparent sealed available 5.Class B/F available
Contact Rating 触点参数					
Contact Form 触点形式		1H,1Z	1H,1Z	1H/1Z	1H,1Z
Contact Material 触点材料		Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy
Max.Operating Current 最大转换电流		10A	12A	16A	20A
Minimum Load 最小负载		10mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
Max.Operating Voltage 最大转换电压		277VAC/30VDC	250VAC/30VDC	250VAC/30VDC	250VAC/30VDC
Max.Operating Power 最大转换功率		1250VA/150W	2500VA/300W	4000VA/480W	4800VA/480W
Rated Load (Resistive Load) 触点负载		1H-D:10A 120VAC 5A240VAC/30VDC 1H-L/1Z:3A 240VAC/30VDC	10A 240VAC 10A 30VDC	16A 250VAC 16A 30VDC	NC/NO 12A /16A 240VAC 16A 30VDC
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻		100	100	100	100
Coil Ratings 线圈参数					
Rated Voltage 线圈电压范围		3-48VDC	3-48VDC	3-48VDC	3-48VDC
Nominal Operating Power 线圈功耗		200/450mW	240/540/720mW	540/720mW	240/540/720mW
General Data 一般参数					
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻		1000	100	100	100
Dielectric Strength Between Contacts 介质耐压		1000VAC	1000VAC	1000VAC	1000VAC
Between Coil and Contacts		4000VAC	5000VAC	5000VAC	5000VAC
Ambient Temperature 环境温度		-40 to +70°C	-40 to +85°C	-40 to +70°C	-40 to +85°C
Operate/Release Time 吸合、释放时间		8ms/5ms	20ms/10ms	20ms/10ms	20ms/10ms
Mechanical Life(Min) 机械寿命		10,000,000	10,000,000	10,000,000	10,000,000
Electrical Life(Min) 电气寿命		100,000	100,000	100,000	100,000
Layout (Bottom View) 安装尺寸及接线图					
Terminal Type 脚位形式		PCB	PCB	PCB	PCB
Approved Standards 安规			UL,cUL ,CQC, TÜV	UL,cUL	UL,cUL ,CQC, TÜV
Cross-Reference 同类产品		OMRON:G5Q NAIS:JQ/PQ SCHRACK:RE/REL FUJITSU:JY	SCHRACK:RT FUJITSU:FTR-F1/VSB ZETTLER:A742/763/764 FEME-M25		SCHRACK:RT FUJITSU:FTR-F1/VSB ZETTLER:AZ742/763/764 FEME-M25




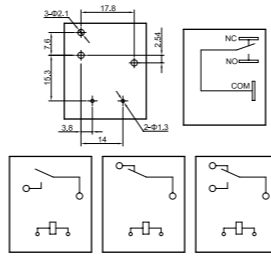
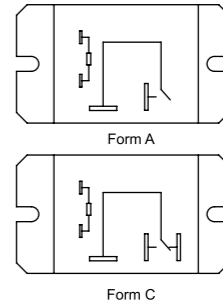
Classification		Power Relay		
Type 型号	TRA3	TRA3H	TRC1	
Appearance 图片				
Outline 外形尺寸 LxWxH(mm) 长x宽x高	29.4 x 13 x 20.6	29.4 x 13 x 20.6	29.3 x 12.7 x 15.7	
Features 特性	1.Creepage distance:8.0mm Min 2.Au-clad contact available 3.Transparent sealed available 4.Class B/F available	1.Creepage distance:8.0mm Min 2.Au-clad contact available 3.Transparent sealed available 4.Class B/F available	1.Creepage distance:10mm 2.Au-clad contact available 3.Transparent sealed available 4.Class B/F available	
Contact Rating 触点参数				
Contact Form 触点形式	2H,2Z	2H/2Z	1H/1Z	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	8A	8A	12A	
Minimum Load 最小负载	100mA 5VDC	100mA 5VDC	100mA 5VDC	
Max.Operating Voltage 最大转换电压	250VAC/30VDC	250VAC/30VDC	440VAC/125VDC	
Max.Operating Power 最大转换功率	1250VA/240W	2000VA/240W	3000VA	
Rated Load (Resistive Load) 触点负载	5A 240VAC 5A 30VDC	8A 250VAC 5A 30VDC	12A 250VAC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100	
Coil Ratings 线圈参数				
Rated Voltage 线圈电压范围	3-48VDC	3-48VDC	5-60VDC/24-230VAC	
Nominal Operating Power 线圈功耗	240/540/720mW	540/720mW	400mW/0.75VA	
General Data 一般参数				
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	
Dielectric Strength Between Contacts 介质耐压	1000VAC	1000VAC	1000VAC	
Between Coil and Contacts	5000VAC	5000VAC	5000VAC	
Ambient Temperature 环境温度	-40 to +85°C	-40 to +70°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	20ms/10ms	20ms/10ms	15ms/8ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图				
Terminal Type 脚位形式	PCB	PCB	PCB	
Approved Standards 安规	UL,cUL ,CQC, TÜV	UL,cUL	UL,cUL	
Cross-Reference 同类产品	SCHTACK:RT FUJITSU:FTR-F1VSB ZETTLER:AZ742/763/764 FEME-M25		SONGCHUAN:881/888 TYCO:RT114	

Power Relay		TRC2	TRC3	TRA4	TRA5
Appearance 图片					
Outline 外形尺寸 LxWxH(mm) 长x宽x高	29.3 x 12.7 x 15.7	29.3 x 12.7 x 15.7	24.5 x 10.5 x 25.0	24.4 x 12.9 x 24.8	
Features 特性	1.Creepage distance:10mm 2.Au-clad contact available 3.Transparent sealed available 4.Class B/F available	1.Creepage distance:10mm 2.Au-clad contact available 3.Transparent sealed available 4.Class B/F available	1. 1 form A contact arrangement 2.Immersion cleanable,sealed version available 3.Applications include applianceHAVC, CTV,Monitor,emergency lighting	1.2 form A contact arrangements 2.Immersion cleanable,sealed version available 3.Meet 4,000V dielectric voltage between coil and contacts 4.Meet 5,000V surge voltage between coil and contacts(1.2/50ms)	
Contact Rating 触点参数					
Contact Form 触点形式	1H/1Z	2H/2Z	1H	2H	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	16A	8A	10A	5A	
Minimum Load 最小负载	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	
Max.Operating Voltage 最大转换电压	440VAC/125VDC	440VAC/125VDC	250VAC/110VDC	250VAC/30VDC	
Max.Operating Power 最大转换功率	4000VA	2000VA	2500VA/300W	1250VA/150W	
Rated Load (Resistive Load) 触点负载	16A 250VAC TV-5A@ 125VAC	8A 250VAC	5A@120VAC (TV-5) 10A 250VAC 10A 30VDC	3A@ 120VAC(TV-3) 5A 250VAC 5A 30VDC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100	100	
Coil Ratings 线圈参数					
Rated Voltage 线圈电压范围	5-60VDC/24-230VAC	5-60VDC/24-230VAC	3-48VDC	3-48VDC	
Nominal Operating Power 线圈功耗	400mW/0.75VA/Bistable	400mW/0.75VA	250/540mW	250/540mW	
General Data 一般参数					
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	100	
Dielectric Strength Between Contacts 介质耐压	1000VAC	1000VAC	900VAC	1000VAC	
Between Coil and Contacts	5000VAC	5000VAC	4000VAC	4000VAC	
Ambient Temperature 环境温度	-40 to +85°C	-40 to +85°C	-30 to +70°C	-40 to +70°C	
Operate/Release Time 吸合、释放时间	15ms/8ms	15ms/8ms	15ms/8ms	20ms/10ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图					
Terminal Type 脚位形式	PCB	PCB	PCB	PCB	
Approved Standards 安规	UL,cUL	UL,cUL	UL,cUL ,CQC, TÜV	UL,cUL ,CQC, TÜV	
Cross-Reference 同类产品	SONGCHUAN:881/888 TYCO:RT424	SONGCHUAN:881/888 TYCO:RT314	OEG:SDT	OEG:OSA/PCI	

Classification		Power Relay		
Type 型号	TRA2F	TRGB	TRCD	
Appearance 图片				
Outline 外形尺寸 LxWxH(mm) 长x宽x高	29 x 12.6 x 24.2	20.5 x 7.2 x 15.6	23 x 16.1 x 10.2	
Features 特性	1.16A switching capability 2.5KV dielectric strength between coil to contacts 3.10KV surge voltage between coil to contacts 4. Meet requirements of 8mm creepage distance 5.Class B/F available	1.Max. switching current 5A 2.Surge strength 7KV	1. Low Profile (10mm), 15 Amp switching capacity. 2. 1 Form A contact arrangement. 3. Sensitive 200mW coil (250mW on 48VDC coil). 4. Immersion cleanable, sealed version available.	
Contact Rating 触点参数				
Contact Form 触点形式	1H	1H	1H	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	20A	5A	16A	
Minimum Load 最小负载	100mA 5VDC	10mA 5VDC	100mA 5VDC	
Max.Operating Voltage 最大转换电压	277VAC/30VDC	277VAC/30VDC	250VAC/125VDC	
Max.Operating Power 最大转换功率	4000VA	831VA/90W	4000VA/480W	
Rated Load (Resistive Load) 触点负载	16A 250VAC 20A 125VAC	5A 250VAC 5A 28VDC	16A 250VAC 10A250VAC/24VDC 1/2HP 125VAC 1HP277VAC TV-5A@125VAC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	50	100	100	
Coil Ratings 线圈参数				
Rated Voltage 线圈电压范围	5-48VDC	5-24VDC	3-48VDC	
Nominal Operating Power 线圈功耗	540mW	200mW	200/360/450mW	
General Data 一般参数				
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	1000	1000	100	
Dielectric Strength Between Contacts 介质耐压	1000VAC	750VAC	750VAC	
Between Coil and Contacts 介电强度	5000VAC	4000VAC	2500VAC	
Ambient Temperature 环境温度	-40 to +85°C	-40 to +70°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	20ms/10ms	10ms/10ms	15ms/8ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图				
Terminal Type 脚位形式	PCB	PCB	PCB	
Approved Standards 安规	UL,cUL ,CQC, TÜV	UL,cUL ,CQC, TÜV	UL,cUL ,CQC, TÜV	
Cross-Reference 同类产品	SONGCHUAN:302W	OMRON:G5NB/G5T NAIS:LD FUJITSU:FTR-F3	OEG:PCD	

Power Relay				
TRCDF	HJQ-13F-1C	HJQ-13F-2C	HJQ-22F	
				
25 x 23 x 10.2	28 x 21.5 x 35	28 x 21.5 x 35	28 x 21.5 x 35	
1. Low Profile (10mm), 15 Amp switching capacity. 2. 1 Form A contact arrangement. 3. Sensitive 200mW coil (250mW on 48VDC coil). 4. Immersion cleanable, sealed version available. 5.Quick connect terminals available.	1.16A transfer contacts 2.Different dust-proof cover,different layout	1.10A transfer contacts 2.Different dust-proof cover,different layout	1.2 to 3 pole configurations	
Contact Rating 触点参数				
1H	1Z	2Z	2Z,3Z	
Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy	
16A	20A	10A	7A	
100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	
250VAC/125VDC	250VAC/30VDC	250VAC/30VDC	240VAC/30VDC	
4000VA/480W	4000VA/480W	2500VA/300W	1680VA/210W	
16A 250VAC 10A250VAC/24VDC 1/2HP 125VAC TV-5A@125VAC	16A 240VAC 16A 30VDC	10A 240VAC 10A 30VDC 15A 125VAC	7A 240VAC 7A 30VDC 5A 240VAC	
100	100	100	100	
Coil Ratings 线圈参数				
3-48VDC	5-110VDC,6-240VAC	5-110VDC,6-240VAC	5-110VDC,6-240VAC	
200/360/450mW	900mW/1.2VA	900mW/1.2VA	900mW/1.2VA	
General Data 一般参数				
100	100	100	100	
750VAC	1000VAC	1000VAC	1000VAC	
2500VAC	1500VAC	1500VAC	1500VAC	
-40 to +85°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	
15ms/8ms	25ms/25ms	25ms/25ms	25ms/25ms	
10,000,000	10,000,000	10,000,000	10,000,000	
100,000	100,000	100,000	100,000	
				
PCB	PCB & Quick Connects	PCB & Quick Connects	PCB & Quick Connects	
UL,cUL ,CQC,TÜV	UL,cUL , TÜV,CQC	UL,cUL ,TÜV,CQC	UL,cUL,CQC	
OEG:PCDF	OMRON:LY1 NAIS:HL OEG:SRET SCHRACK:TM/K10	OMRON:LY2 NAIS:HL OEG:SRET SCHRACK:TM/K10	OMRON:MY2/3 NAIS:HC OEG:SRE SCHRACK:ZT	

Classification		Power Relay		
Type 型号	HJQ-22F-4	HJQ-15F	HJQ-15F-1	
Appearance 图片				
Outline 外形尺寸 LxWxH(mm) 长x宽x高	28 x 21.5 x 35	32 x 27.4 x 19.3	32 x 27.4 x 27.8	
Features 特性	1. 4 pole configurations 2. Au-clad contact available	1.High power&low cost 2. 30A switching capability 3.Less than 1W coil power 4.Open type available 5.Class B/F available	1.QC&PC terminals 2.High dielectric strength 3,000VAC 3.Optional flanged case for panel mounting 4.Class B/F available	
Contact Rating 触点参数				
Contact Form 触点形式	4Z	1H,1D,1Z	1H,1D,1Z	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	5A	30A	30A	
Minimum Load 最小负载	100mA 5VDC	500mA 5VDC	500mA 5VDC	
Max.Operating Voltage 最大转换电压	240VAC/28VDC	250VAC/30VDC	250VAC/30VDC	
Max.Operating Power 最大转换功率	1200VA/140W	7200VA/560W	7200VA/560W	
Rated Load (Resistive Load) 触点负载	5A 240VAC 5A 28VDC	1H:25A(30A)240VAC/20A 28VDC 1D:15A 240VAC/10A 28VDC 1Z:20A/10A 240VAC/28VDC	1H:25A(30A)240VAC/20A 28VDC 1D:15A 240VAC/10A 28VDC 1Z:20A/10A 240VAC/28VDC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100	
Coil Ratings 线圈参数				
Rated Voltage 线圈电压范围	5-110VDC,6-240VAC	5-110VDC	5-110VDC	
Nominal Operating Power 线圈功耗	900mW/1.2VA	930mW	930mW	
General Data 一般参数				
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	
Dielectric Strength Between Contacts 介质耐压	1000VAC	1500VAC	1500VAC	
Dielectric Strength Between Coil and Contacts 介电强度	1500VAC	1500VAC	1500VAC	
Ambient Temperature 环境温度	-40 to +70°C	-40 to +85°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	25ms/25ms	15ms/10ms	15ms/10ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图				
Terminal Type 脚位形式	PCB & Quick Connects	PCB	PCB & Quick Connects	
Approved Standards 安规	UL,cUL,CQC	UL,cUL,TÜV,CQC	UL,cUL,TÜV,CQC	
Cross-Reference 同类产品	OMRON:MY4 NAIS:HC OEG:SRE SCHRACK:ZT	OMRON:G8P NAIS:JT OEG:ORU P&B:T90/T9A	OMRON:G7G/G8P NAIS:JT OEG:ORU P&B:T90/T9A	

Power Relay				
HJQ-15F-2	HJQ-15F-3	HJQ-15F-4	TRAF	
				
32 x 27.4 x 19.3	32.4 x 27.8 x 28	32.4 x 27.8 x 20	30.5 x 16.0 x 23.5	
1.QC&PC terminals 2.High dielectric strength3,000VAC 3.Optional flanged case for panel mounting 4.Class B/F available	1.QC&PC terminals 2.High dielectric strength 3,000VAC 3.Optional flanged case for panel mounting	1.QC&PC terminals 2.High dielectric strength 3000VAC 3.Optional flanged case for panel mounting	1.Ideal for motor switching in appliances and HVAC 2. 20A switching capability 3.Designed for high inrush compressor loads 4.Semi-sealed construction 5.Sealed version available	
1H,1D,1Z	1H,1D,1Z	1H,1D,1Z	1H	
Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy	
30A	30A	30A	20A	
500mA 5VDC	500mA 5VDC	500mA 5VDC	100mA 5VDC	
250VAC/30VDC	250VAC/30VDC	250VAC/30VDC	250VAC	
6000VA/560W	6000VA/560W	6000VA/560W	5000VA	
1H:25A(30A)240VAC/20A 28VDC 1D:15A 240VAC/10A 28VDC 1Z:20A/10A 240VAC/28VDC	1H:25A(30A)240VAC/20A 28VDC 1D:15A 240VAC/10A 28VDC 1Z:20A/10A 240VAC/28VDC	1H:25A(30A)240VAC/20A 28VDC 1D:15A 240VAC/10A 28VDC 1Z:20A/10A 240VAC/28VDC	20A 250VAC	
100	100	100	100	
5-48VDC	5-48VDC	5-48VDC	5-48VDC	
930mW	930mW	930mW	900mW	
100	100	100	100	
1500VAC	1500VAC	1500VAC	1500VAC	
1500VAC	1500VAC	1500VAC	4500VAC	
-40 to +85°C	-40to +70°C	-40 to +70°C	-25 to +55°C	
15ms/10ms	15ms/10ms	15ms/10ms	20ms/10ms	
10,000,000	10,000,000	10,000,000	10,000,000	
100,000	100,000	100,000	100,000	
				
Form C	Form A	Form A		
Form C	Form C	Form C		
PCB & Quick Connects	PCB & Quick Connects	PCB & Quick Connects	PCB & Quick Connects	
UL,cUL,TÜV,CQC	UL,cUL	UL,cUL	CQC,UL,cUL,TÜV	
OMRON:G7G/G8P NAIS:JT OEG:T90/T9A P&B:T90/T9A	OMRON:G7G/G8P NAIS:JT OEG:ORU P&B:T90/T9A	OMRON:G7G/G8P NAIS:JT OEG:ORU P&B:T90/T9A	OMRON:G4A GOOD SKY:GQF ZETTLER:AZ760	

Classification		Automotive Relay		
Type 型号	TRKF	TRAW	TRF	
Appearance 图片				
Outline 外形尺寸 LxWxH(mm) 长x宽x高	19.2 x 15.5 x 15.5	18 x 15.5 x 20	20.3 x 15.3 x 22.5	
Features 特性	1.15A switching capability 2.Small footprint 3.Sealed type available	1.Max.switching current 20A 2.10A continuous rating 85°C 3.Different contact form available 4.Open or sealed cover available	1.Max. switching current 25A 2.Different terminals available 3.Suitable for automation system and automobile auxiliary etc	
Contact Rating 触点参数				
Contact Form 触点形式	1H,1Z	1H,1Z,SH,SZ	1H	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	20A	20A	25A	
Minimum Load 最小负载				
Max.Operating Voltage 最大转换电压	16VDC	75VDC	24VDC	
Max.Operating Power 最大转换功率	280W	200W	350W	
Rated Load (Resistive Load) 触点负载	1Z:15A 14VDC 1H:20A 14VDC	1H,1Z:10A14VDC SH,SZ:15A14VDC	25A /14VDC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	50	
Coil Ratings 线圈参数				
Rated Voltage 线圈电压范围	9-24VDC	6-24VDC	12-24VDC	
Nominal Operating Power 线圈功耗	640/800mW	1100mW	1160mW	
General Data 一般参数				
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	
Dielectric Strength Between Contacts 介质耐压	500VAC	500VAC	550VAC	
Between Coil and Contacts	1500VAC	500VAC	1000VAC	
Ambient Temperature 环境温度	-40 to +85°C	-40 to +85°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	15ms/10ms	5ms/3ms	10ms/7ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图				
Terminal Type 脚位形式	PCB	PCB	Quick Connects	
Approved Standards 安规				
Cross-Reference 同类产品	OMRON:G5LC FUJITSU:FBR161-H NAIS:JS ZETTLER:AZ943 P&B:T7N	OEG:OARW P&B:VKM TYCO:V23072-C1 ZETTLER:AZ975/976	TYCO:VF	

Automotive Relay		TRFM	TRKM	TRV5	TRV3
Appearance 图片					
Outline 外形尺寸 LxWxH(mm) 长x宽x高	23 x 15.5 x 26	15.7 x 12.3 x 14.0	28 x 25 x 49.4 28 x 23 x 29.4	26.5 x 26.5 x 25 26.5 x 26.5 x 41	
Features 特性	1.Max.switching current 25A 2.Different terminals available	1.20A switching capability 2.Small size auto relay	1.Open or sealed cover available 2.40A continuous rating 80°C	1.40A continuous rating 85°C 2.1A&1C arrangements 3.Plug-in or PC board terminals 4.Optional mounting bracket	
Contact Rating 触点参数					
Contact Form 触点形式	1H,1Z	1H,1D,1Z	1H	1H/1Z/1D/1U	
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy	
Max.Operating Current 最大转换电流	25A	25A	30A	40A	
Minimum Load 最小负载					
Max.Operating Voltage 最大转换电压	24VDC	16VDC	14VDC	30VDC	
Max.Operating Power 最大转换功率	350W	840VA/280W	420W	560W	
Rated Load (Resistive Load) 触点负载	1H:25A 14VDC 1Z:20A 14VDC	NO:20A 14VDC NC:12A 14VDC 1Z:7A 120VAC	30A 14VDC 15A 28VDC	NO: 40A 14VDC 2X20A 14VDC (1U) NC: 30A 14VDC	
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	50	100	100	100	
Coil Ratings 线圈参数					
Rated Voltage 线圈电压范围	6-24VDC	6-24VDC	6-24VDC	6-24VDC	
Nominal Operating Power 线圈功耗	1600mW	600/800mW	1440mW	1600/1900mW	
General Data 一般参数					
Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	100	
Dielectric Strength Between Contacts 介质耐压	500VAC	500VAC	500VAC	550VAC	
Between Coil and Contacts	1000VAC	500VAC	500VAC	550VAC	
Ambient Temperature 环境温度	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	
Operate/Release Time 吸合、释放时间	10ms/10ms	10ms/5ms	15ms/8ms	10ms/10ms	
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	10,000,000	
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	100,000	
Layout (Bottom View) 安装尺寸及接线图					
Terminal Type 脚位形式	Quick Connects	PCB	PCB	Quick Connects	
Approved Standards 安规		UL,cUL			
Cross-Reference 同类产品	TYCO:VFM	OMRON:R-501 FUJITSU:FBR51	SONGCHUAN:804/823	SONGCHUAN:896	

Automotive Relay

Classification	TRV4	TRV4-1U	TRS
Type 型号			
Appearance 图片			

Outline 外形尺寸 LxWxH(mm) 长x宽x高	28 x 28 x 25 28 x 31.8 x 41	28 x 28 x 25 28 x 31.8 x 41	13.2 x 12.3 x 9.8
------------------------------------	--------------------------------	--------------------------------	-------------------

Features 特性	1. 40A continuous rating 85°C 2. 1A&1C arrangements 3. Plug-in or PC board terminals 4. Optional mounting bracket	1. 40A continuous rating 85°C 2. 1A&1C arrangements 3. Plug-in or PC board terminals 4. Optional mounting bracket	1. 30A 16VDC switching rating 2. 40A inrush at 16VDC 3. Smallest power relay 4. 1 Form A and 1 Form C arrangements in single and dual relay packages 5. For Automotive Applications
-------------	--	--	---

Contact Rating 触点参数

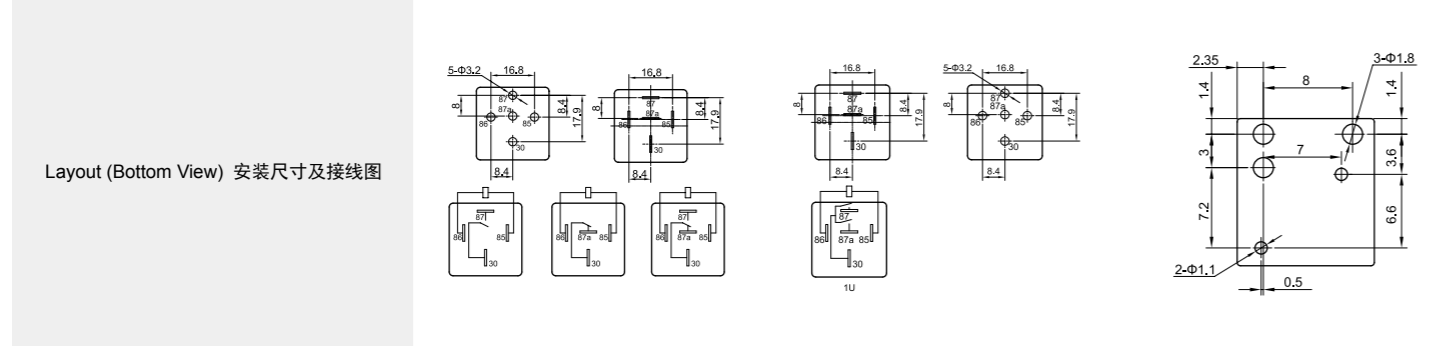
Contact Form 触点形式	1H,1Z,1D	1U	1H,1Z
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy
Max.Operating Current 最大转换电流	40A	40A	40A
Minimum Load 最小负载			0.5A 12VDC
Max.Operating Voltage 最大转换电压	30VDC	30VDC	
Max.Operating Power 最大转换功率	560W	560W	420W
Rated Load (Resistive Load) 触点负载	NO:40A 14VDC NC:30A 14VDC	2*20A /14VDC	Res: NC/NO 20A/30A 14VDC
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100

Coil Ratings 线圈参数

Rated Voltage 线圈电压范围	3-24VDC	3-24VDC	12VDC
Nominal Operating Power 线圈功耗	1600/1900mW	1600/1900mW	570/800mW

General Data 一般参数

Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100
Dielectric Strength Between Contacts 介质耐压	500VAC	500VAC	500VAC
Dielectric Strength Between Coil and Contacts 介质耐压	750VAC	750VAC	500VAC
Ambient Temperature 环境温度	-40 to +85°C	-40 to +85°C	-40 to +105°C
Operate/Release Time 吸合、释放时间	10ms/10ms	10ms/10ms	4ms/2ms
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000
Electrical Life(Min) 电气寿命	100,000	100,000	100,000@20A/14VDC on NO



Terminal Type 脚位形式	PCB & Quick Connects	PCB & Quick Connects	PCB
--------------------	----------------------	----------------------	-----

Approved Standards 安规			
Cross-Reference 同类产品	P&B:VF4 NAIS:CB OEG:VF4 ZETTLER:AZ972/973	P&B:VF4 NAIS:CB OEG:VF4 ZETTLER:AZ972/973	TYCO:V23086 SONGCHUAN:102

Automotive Relay

TRKP	TRV6	TRV6-1U	TRKA

Outline 外形尺寸 LxWxH(mm) 长x宽x高	26.2 x 21.0 x 21.0	28.6 x 28.6 x 26.5 28.6 x 28.6 x 42.5	28.6 x 28.6 x 26.5 28.6 x 28.6 x 42.5	14 x 7.5 x 13.5
------------------------------------	--------------------	--	--	-----------------

Features 特性	1. 40A continuous rating 85°C 2. PC board terminals 3. Inrush current 100A 4. Open & sealed version available	1. 80A continuous rating 85°C 2. 1A,1B&1C arrangements 3. Plug-in or PC board terminals 4. Optional mounting bracket	1. 80A continuous rating 85°C 2. 1U arrangements 3. Plug-in or PC board terminals 4. Optional mounting bracket	1. 25A motor locked load 2. Extremely small relay 3. Change-over contact version 4. Single and twin version available 5. Coil wire insulation classH(180°C) 6. RoHS & ELV compliant
-------------	--	---	---	--

Contact Rating 触点参数

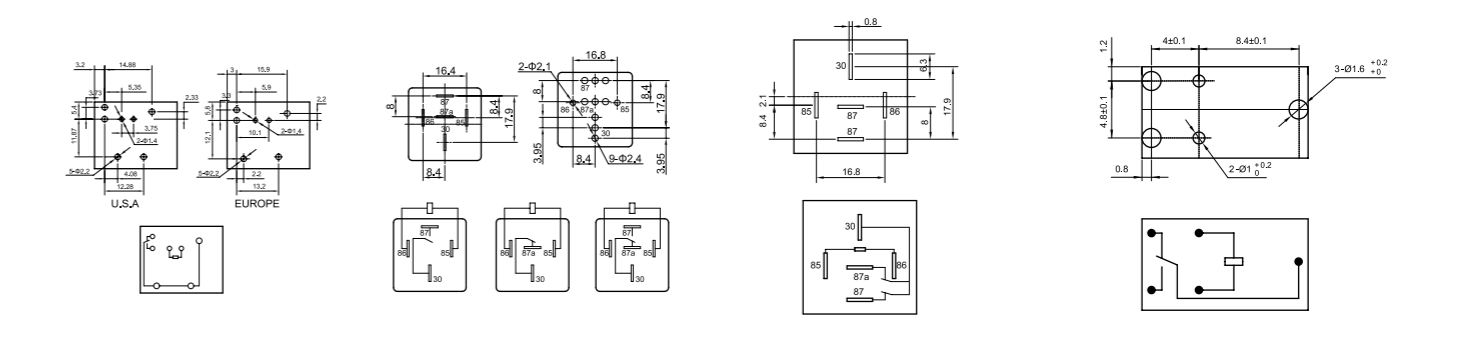
Contact Form 触点形式	1H,1Z	1H,1D,1Z	1U	1C
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy
Max.Operating Current 最大转换电流	40A	50A 80A	40A	30A
Minimum Load 最小负载		0.5A 12VDC	0.5A 12VDC	0.5A 12VDC
Max.Operating Voltage 最大转换电压	60VDC	75VDC	75VDC	16VDC
Max.Operating Power 最大转换功率	560W	980W	700W	480W
Rated Load (Resistive Load) 触点负载	NO:40A 14VDC NC:30A 14VDC	NO:50A 14VDC NO:80A 14VDC NC:40A 14VDC NC:60A 14VDC	2*25A /14VDC	NC:12A 16VDC NO:30A 16VDC
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	100	100

Coil Ratings 线圈参数

Rated Voltage 线圈电压范围	3-24VDC	6-24VDC	6-24VDC	6-24VDC
Nominal Operating Power 线圈功耗	1200/1600/1900mW	1800mW	1800mW	640mW/800mW

General Data 一般参数

Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	100	100	100	100
Dielectric Strength Between Contacts 介质耐压	500VAC	500VAC	500VAC	500VAC
Dielectric Strength Between Coil and Contacts 介质耐压	500VAC	500VAC	500VAC	500VAC
Ambient Temperature 环境温度	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C
Operate/Release Time 吸合、释放时间	5ms/4ms	7ms/5ms	7ms/5ms	10ms/10ms
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	10,000,000	10,000,000
Electrical Life(Min) 电气寿命	100,000	100,000	100,000	100,000



Terminal Type 脚位形式	PCB	PCB & Quick Connects	PCB & Quick Connects	PCB
--------------------	-----	----------------------	----------------------	-----

Approved Standards 安规				
Cross-Reference 同类产品	P&B:VKP TYCO:V23076 ZETTLER:AZ970/971	ZETTLER:AZ979/980	ZETTLER:AZ979/980	

Classification Magnetic Latching Relay

Type 型号	TRM1	TRM2	TRL1
Appearance 图片			
Outline 外形尺寸 LxWxH(mm) 长x宽x高	20.2 x 11.3 x 10.5	20.2 x 15 x 10.5	37 x 21.5 x 42.4

Features 特性	TRM1	TRM2	TRL1
	1. Low height 10.5mm 2. Low coil power 3. 1 Form A,2Form A,1 Form A+1 Form B configuration 4. 3kV dielectric strength(between coil and contacts)	1. High switching capacity 1A,1B:10A250VAC30VDC; 2A,2B,1A+1B:8A250VAC30VDC 2. 4kV dielectric strength (between coil and contacts); 3. RoHS(compliant)	1. High Contact Load 2. The relays are designed and manufactured in accordance with the standards of the standards of DIN IEC 255,part 1-100/VDC 0435,part 201,which directive(LVD)

Contact Rating 触点参数

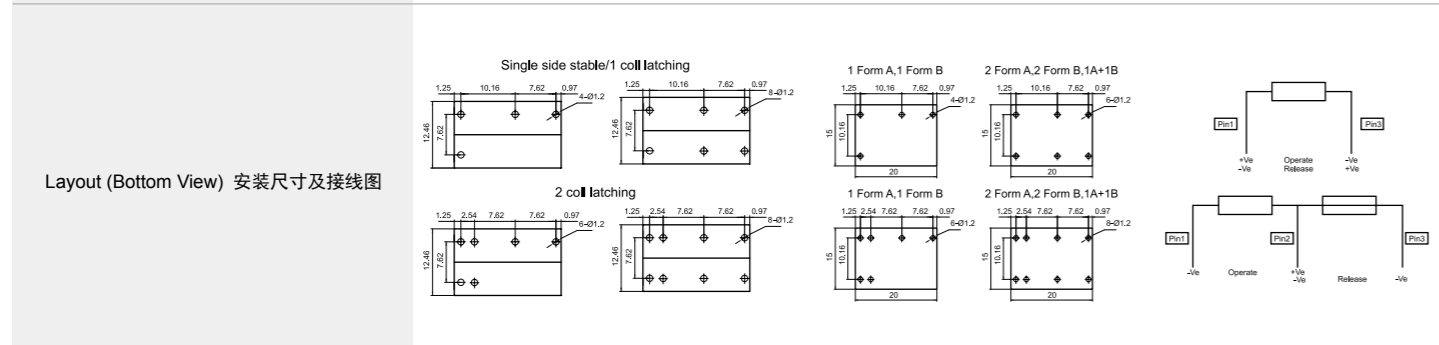
Contact Form 触点形式	1A/2A/1A+1B	1A/1B/2A/2B/1A+1B	1H
Contact Material 触点材料	Silver Alloy	Silver Alloy	Silver Alloy
Max.Operating Current 最大转换电流	8A	10A	100A
Minimum Load 最小负载			
Max.Operating Voltage 最大转换电压	277VAC/60VDC	277VAC	250VAC
Max.Operating Power 最大转换功率	2000VA/150W	2500VA	25000VA
Rated Load (Resistive Load) 触点负载	1A: 8A250VAC,5A30VDC 2A/1A+1B: 5A250VAC,5A30VDC	1A/1B: 10A250VAC/30VDC 2A/2B/1A+1B: 8A250VAC/30VDC	100A 250VAC
Contact Resistance(mΩ) (at 6VDC 1A) 接触电阻	100	100	2

Coil Ratings 线圈参数

Rated Voltage 线圈电压范围	3-24VDC	3-24VDC	5-48VDC
Nominal Operating Power 线圈功耗	150mW/300mW	200mW/450mW	2400/4800mW

General Data 一般参数

Insulation Resistance(MΩ) (at 500VDC) 绝缘电阻	1000	1000	1000
Dielectric Strength Between Contacts 介质耐压	1000VAC	1000VAC	1000VAC
Between Coil and Contacts 介电耐压	3000VAC	4000VAC	4000VAC
Ambient Temperature 环境温度	-40 to +85°C	-40 to +70°C	-30 to +55°C
Operate/Release Time 吸合、释放时间	10ms/10ms	10ms/10ms	30ms/30ms
Mechanical Life(Min) 机械寿命	10,000,000	10,000,000	50,000
Electrical Life(Min) 电气寿命	30,000	30,000	10,000



Terminal Type 脚位形式	PCB	PCB	
Approved Standards 安规			
Cross-Reference 同类产品			

Magnetic Latching Relay

TRL2	TRL3	TRL4
67 x 48.5 x 24	38.7 x 31.4 x 15	38.7 x 33 x 18

The relays are designed and manufactured in accordance with the standards of the standards of DIN IEC 255,part 1-100/VDE 0435,part 201,which directive(LVD) The polarized latching relays are designed signed by a high resistance to shock and vibration and a low bounce inclination. They are always in a defined switching-position and therefore there is no loss of information in case of power failure.

1.High contact Load.
 2.The relays are designed and manufactured in accordance to the Standards of DIN IEC 255, part 1-00/VDE 0435, part 201, which are also in accordance to the Low Voltage directive(LVD).
 3.The polarized vibrations and a lowbounce inclination. They are always in a defined switching-position and therefore there is no loss of information in case of power failure.

1.High contact Load.
 2.The relays are designed and manufactured in accordance with the Standards of DIN IEC 255, part 1-00/VED 0435, part 201,which are also in accordance with the Low Voltage directive(LVD).
 3.The polarized latching relays are designed signed by a high resistance to shock and vibration and a low.bounce inclination.They are always in a defined switching-position and therefore there is no loss of information in case of power failure.

1H	1H/1Z	1H
Silver Alloy	Silver Alloy	Silver Alloy
100A	25A	60A
250VAC	440VAC	250VAC
25000VA	6250VA	15000VA
100A 250VAC	25A 250VAC	60A 250VAC
2	50	2
5-48VDC	5-48VDC	5-48VDC
2880/5760mW	1000/2000mW	1000/2000mW
1000	1000	100
1000VAC	1500VAC	1200VAC
5000VAC	4000VAC	2500VAC
-30 to +55°C	-25 to +70°C	-30 to +55°C
30ms/30ms	10ms/10ms	15ms/15ms
200,000	1,000,000	100,000
1,000	30,000	5,000

