KKA®

| PCB RELAY | T91 |
|---|---|

- High power&low cost
- 30A/40A switching capability
- Open sealed type available
- Class B/F available
- Size：27.4*32*28.1mm


## ■ORDERING CODE 定购代码

| T91 — 12VDC — TL — C<br>1 2 3 4 | |
|---|---|
| 1. Relay Model 继电器型号<br>T91<br>3. 品牌：<br>TL/通灵 | 2. Coil Nominal Voltage 线圈额定电压<br>5 , 6, 9, 12, 18, 24<br>4. 触点转换形式<br>H: Form A Z: Form C<br>D: Form B |

## ■COIL DATA 线圈参数（at 20℃）

| Nominal Voltage 额定电压(VDC) | 5 | 6 | 9 | 12 | 24 | 48 | 0.93W |
|---|---|---|---|---|---|---|---|
| Coil Resistance 线圈阻值(Ω ±10%) | 27 | 39 | 87 | 155 | 620 | 2480 | |
| Rated Current 额定电流(mA) | 186 | 155 | 103 | 77.5 | 39 | 19 | |
| Max Operate Voltage 最大吸合电压(VDC) | 3.75 | 4.5 | 6.75 | 9 | 18 | 36 | |
| Min Release Voltage 最小释放电压(VDC) | 0.5 | 0.6 | 0.9 | 1.2 | 2.4 | 4.8 | |
| Max ApplicableVoltage 最大过载电压 | 70℃时额定电压的 130%，23℃时额定电压的 170% | | | | | | |

## ■CONTACT DATA 触点参数

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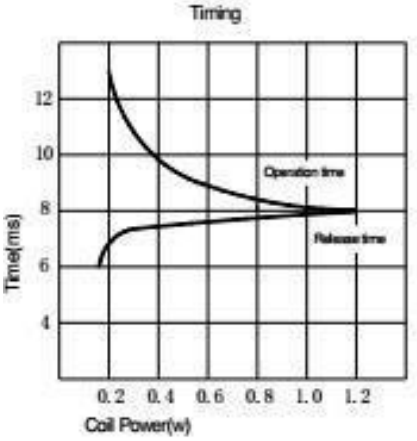
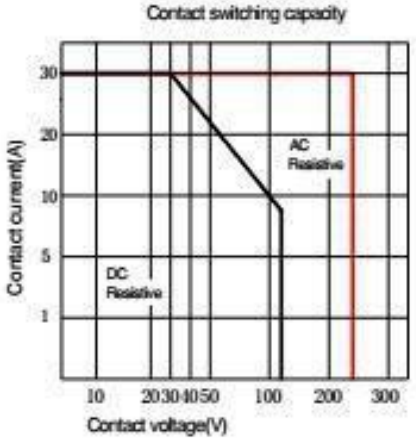
|---|---|
| Contact Form 触点形式 | 1H/1D/1Z |
| Contact Material 触点材料 | Silver Alloy |
| Load 负载 | Resistive load(COSΦ=1) |
| Contact Ratings 触点负载 | 30A 250VAC<br>30A 30VDC |
| Minimum load 最小负载 | 500mA 5VDC |
| Max Switching Voltage 最大转换电压 | 250VAC/30VDC |
| Max Switching Current 最大转换电流 | 30A |
| Max Switching Power 最大转换功率 | 7500VA/900W |
| Contact Resistance 接触电阻 | 100mΩMax at 6VDC 1A |
| Life Expectancy 寿命 | Electrical 电气寿命: 100, 000 Operations(at30Operations/minute) |
| | Mechanical 机械寿命: 10, 000, 000 Operations(at300Operations/minute) |

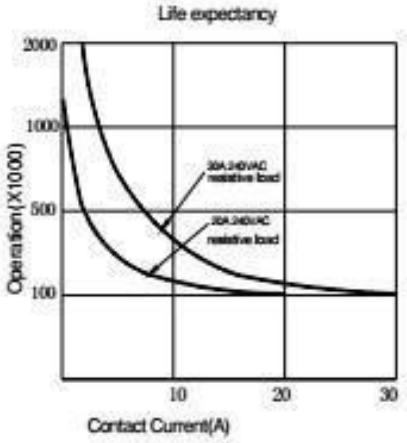
## ■CHARACTERISTICS DATA 性能参数

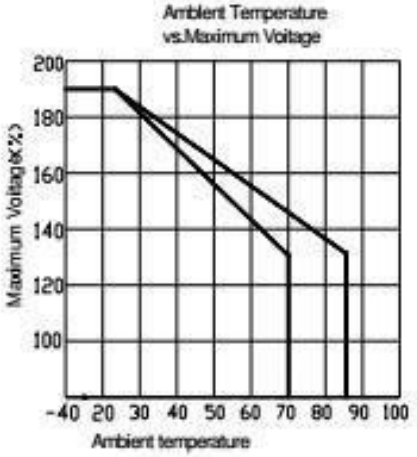
| | |
|---|---|
| Insulation Resistance 绝缘阻值 | 100MΩMin at 500VDC |
| Dielectric Strength Between Open Contacts 触点间耐压 | 1500VAC(for one minute) |
| Between Contacts and coil 触点与线圈间耐压 | 1500VAC/2500VAC(for one minute) |
| Operate Time 吸合时间 | 15ms |
| Release Time 释放时间 | 10ms |
| Temperature Range 环境温度 | -40℃to+70℃(Class F:85℃) |
| Shock Resistance 冲击 | Operating Extremes 动作极限: 10G |
| | Damage Limits 破坏极限: 100G |
| Vibration Resistance 振动 | 10-55Hz, 1.5mm |
| Max. switching frequency 最大转换频率 | Mechanical:18,000operations/hr<br>Electrical:1,800operations/hr |
| Humidity 湿度 | 40-85% |
| Weight 重量 | Approx 36g |

## ■ ENGINEERING DATA 设计参数

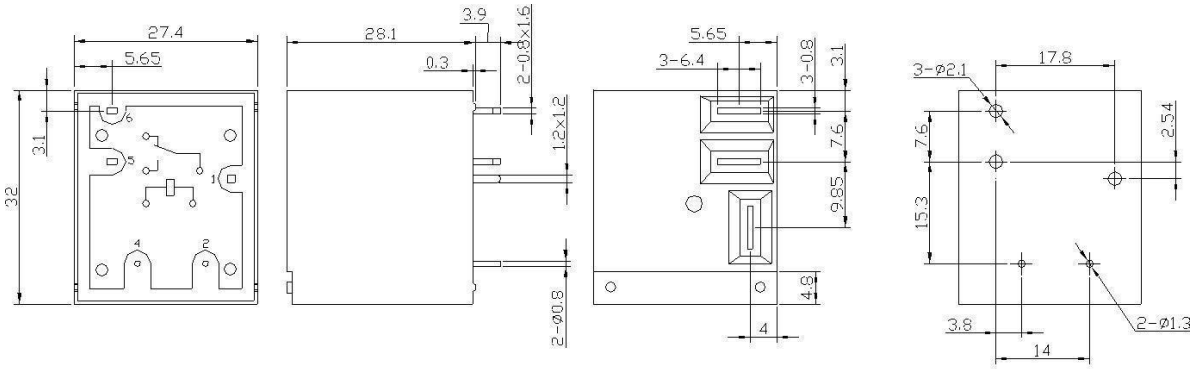


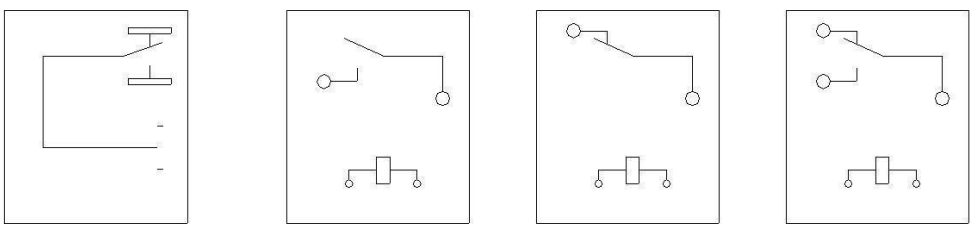




## ■ OVERALL AND MOUNTING DIMENSIONS 安装图



备注：1）产品部分外形尺寸中未注尺寸公差：当外形尺寸≤1mm 时，公差为±0.2mm；当外形尺寸在 1~5mm 时，公差为±0.3mm；当外形尺寸＞5mm 时，公差为±0.4mm。

2）安装孔尺寸中未注尺寸公差均为±0.1mm。