

# Industrial Relay

工业继电器



因联结而喜悦!!

Delight Through Connections

XC-11.4C



## 为您快速实现成功!!

自1983年创立以来，叮洋集团始终坚持创新的力量及工匠精神，以生产优质的产品和提供高效的服务从而实现与客户连结。

我们凭借30多年来丰富的行业经验与专业技术，聆听客户的需求，不断推陈出新，积极架构高效的全球服务体系。与客户及同业人员精诚合作，携手共进。

时刻关注客户的需求，正确理解，正确执行，是叮洋制胜的关键。

叮洋创立于台湾，在全球设有贸易与服务机构，是全球主要的接线端子制造公司之一。

为客户提供以结果为导向的高性价比解决方案，是我们一直以来追求的目标。

叮洋人一直坚守在自己的岗位，坚持创新的工匠精神，追求最高的产品质量，以双赢的结果为导向，营造相互信任，公平公正的合作关系。

客户的信赖与支持是我们保持激情，不断创新的动力。

今天的叮洋，已不再只是高质量端子台的供货商，更是您多元需求的合作伙伴。



## 产品主要特点

- 国际通用、认证齐全
- 工作稳定可靠，使用寿命更长
- 体积小，额定容量高
- 可视化机械指示窗和测试按钮，无需上电即可检测触点功能
- 触点材质使用工业级银合金
- 配备多种日式、欧式底座；螺丝、弹片、PID 直插多种接线方式
- 设计用材考究，绿色环保，符合 RoHS 指令





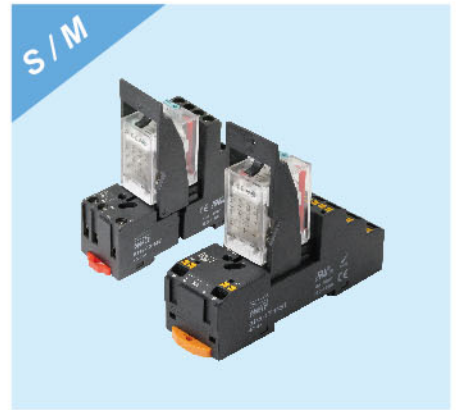
## RER 超薄型

6.2mm 超薄尺寸设计  
宽电压输入设计  
1 副转换触点, 6A 大容量输出  
内置电涌保护电路  
弹片接线与螺丝接线底座  
安装空间释放更多



## J Type 紧凑型

16mm 紧凑设计, 适用工业领域需求  
可提供 2 副转换触点选择  
1C/12A 大容量输出  
PID 及多款底座供选择使用  
提供功能电子模块, 应用更便利  
节省柜内安装空间



## S / M Type 通用型

国际通用电磁继电器  
2 或 4 副转换触点  
10A 大容量负载设计  
标配测试按钮/旋钮, 并于现场安装  
PID 及多款底座供选择使用  
提供功能电子模块, 应用更便利  
转换成本低, 快速上手



## L Type 电机负载型

国际通用电磁继电器  
2 或 4 副转换触点  
4C / 10A 大容量负载设计  
符合出口与安规测试要求底座  
转换成本低, 快速上手



## RE 光继电器

6.2mm 超薄一体化设计  
创新产品设计  
满足宽电压输入设计  
1 副转换触点, 6A 大容量输出  
提供 10kHz 高频转换规格  
PID 接线与螺丝接线底座  
安装空间释放更多







## 继电器装配附件













金属固定夹  
塑料固定夹  
LED 及防浪涌组件  
侧联组件及短路片  
标示牌



## 薄型继电器 RER 系列 / Slim Relay RER Series

第7-12页				
订货规格 产品描述	RER-24-1A 螺丝, 24VDC, Contact : 1C / 6A	RER-110-2B 螺丝, 120VAC, Contact : 1C / 6A	RER-230-3B 螺丝, 230VAC, Contact : 1C / 6A	
第7-12页				
订货规格 产品描述	RER-24-4A 弹片, 24VDC, Contact: 1C / 6A	RER-110-5B 弹片, 120VAC, Contact: 1C / 6A	RER-230-6B 弹片, 230VAC, Contact: 1C / 6A	

## 紧凑型继电器 J 系列 / Compact Relay J Series

第16-17页				
订货规格 产品描述	RER-J1C-D24 Coil / 24VDC, Contact: 1C / 10A	RER-J1C-A120 Coil / 120VAC, Contact: 1C / 10A	RER-J1C-A230 Coil / 230VAC, Contact: 1C / 10A	
第18-19页				
订货规格 产品描述	RER-J2C-D24 Coil / 24VDC, Contact: 2C / 5A	RER-J2C-A120 Coil / 120VAC, Contact: 2C / 5A	RER-J2C-A230 Coil / 230VAC, Contact: 2C / 5A	
第20页				
订货规格 适用规格	0149-3T-05ST RER-J1C	0149-3T-08ST RER-J2C		
第21-22页				
订货规格 适用规格	0149-30-05A RER-J1C	0149-30-08A RER-J2C	0149-33-05E RER-J1C	0149-33-08E RER-J2C

# 通用型继电器 S / M 系列 / General Relay S / M Series

第26-27页				
订货规格 产品描述	RER-S2C-D24 Coil / 24VDC, Contact: 2C / 10A	RER-S2C-A120 Coil / 120VAC, Contact: 2C / 10A	RER-S2C-A230 Coil / 230VAC, Contact: 2C / 10A	
第28-29页				
订货规格 产品描述	RER-S4C-D24 Coil / 24VDC, Contact: 4C / 5A	RER-S4C-A120 Coil / 120VAC, Contact: 4C / 5A	RER-S4C-A230 Coil / 230VAC, Contact: 4C / 5A	
第30-31页				
订货规格 产品描述	RER-M2C-D24 Coil / 24VDC, Contact: 2C / 5A	RER-M2C-A120 Coil / 120VAC, Contact: 2C / 5A	RER-M2C-A230 Coil / 230VAC, Contact: 2C / 5A	
第32-33页				
订货规格 产品描述	RER-M4C-D24 Coil / 24VDC, Contact: 4C / 3A	RER-M4C-A120 Coil / 120VAC, Contact: 4C / 3A	RER-M4C-A230 Coil / 230VAC, Contact: 4C / 3A	
第34页				
订货规格 适用规格	0149-1T-08ST RER-M2 / RER-S2	0149-1T-14ST RER-M4 / RER-S4		
第34页				
订货规格 产品描述	0149-10-08A RER-M2 / RER-S2	0149-10-14A RER-M4 / RER-S4	0149-13-08E RER-M2 / RER-S2	0149-13-14E RER-M4 / RER-S4

## 通用型继电器 L 系列 / General Relay L Series




第36-37页				
订货规格 产品描述	RER-L2C-D24 Coil / 24VDC, Contact: 2C / 10A	RER-L2C-A120 Coil / 120VAC, Contact: 2C / 10A	RER-L2C-A230 Coil / 230VAC, Contact: 2C / 10A	
第38-39页				
订货规格 产品描述	RER-L4C-D24 Coil / 24VDC, Contact: 4C / 10A	RER-L4C-A120 Coil / 120VAC, Contact: 4C / 10A	RER-L4C-A230 Coil / 230VAC, Contact: 4C / 10A	
第40页				
订货规格 适用规格	0149-20-08A RER-L2	0149-20-14A RER-L4		

## 配件 / Accessories

第42页			
订货规格 适用规格	0149-11ES 0149-10-08A	0149-11 0149-10-14A	0149-21 0149-20-08A、0149-20-14A
第42页			
订货规格 适用规格	0149-14 0149-13-08E、0149-13-14E 0149-1T-08ST、0149-1T-08ST	0149-32 0149-33-05E、0149-33-08E 0149-3T-05ST、0149-3T-08ST	
第43页			
订货规格 适用规格	0149-36 0149-13-08E、0149-13-14E、0149-33-05E 0149-33-08E、0149-1T-08ST、0149-1T-14ST 0149-3T-05ST、0149-3T-08ST	0149-35-24 0149-13-08E、0149-13-14E、0149-33-05E 0149-33-08E、0149-1T-08ST、0149-1T-14ST 0149-3T-05ST、0149-3T-08ST	0149-35-240 0149-13-08E、0149-13-14E、0149-33-05E 0149-33-08E、0149-1T-08ST、0149-1T-14ST 0149-3T-05ST、0149-3T-08ST
第43页			
订货规格 适用规格	0149-4S-20 RER-24-1A、RER-110-2B、RER-230-3B RER-24-4A、RER-110-5B、RER-230-6B	0149-3U-02 0149-1T-08ST、0149-1T-14ST 0149-3T-05ST、0149-3T-08ST	



## 光继电器(PID) / Optical Relay, RE Series (PID)

第47页			
订货规格 产品描述	RE-2604 Input: 5 VDC / 10~15 mA, Output: 3~48VDC / 6 A	RE-2614 Input: 24 VDC / 10~15 mA, Output: 3~48VDC / 6 A	RE-2674 Input: 90~265 VAC / 10 mA, Output: 3~48VDC / 6 A

## 光继电器(螺丝型) / Optical Relay, RE Series (Screw)

第48页			
订货规格 产品描述	RE-0504 Input: 5 VDC / 15~18 mA, Output: 3~48 VDC / 500 mA	RE-0514 Input: 24 VDC / 6 mA, Output: 3~18 VDC / 500mA	

第49页			
订货规格 产品描述	RE-0554 Input: 95~125 VAC / 0.6~1.3 mA, Output: 3~48 VDC / 500 mA	RE-0564 Input: 200~240 VAC / 0.6~1.1 mA, Output: 3~48 VDC / 500 mA	

## 光耦端子 / Optical Coupler

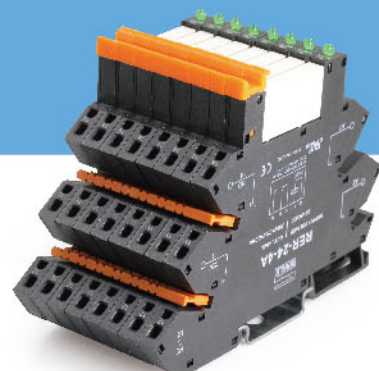
第50页			
订货规格 产品描述	RE-0014 Input: 5~30 VDC / 6 mA, Output: 3~30 VDC / 100 mA		

# Slim Relay

## 薄型继电器

产品宽度仅 6.2mm，町洋新推出的 RER 系列是目前业界超薄尺寸导轨安装式继电器。使用 RER 新系列产品，可大大方便工程技术人员对有限的电气控制柜的布局设计。

In 6.2mm width only, Dinkle RER series relay is one of the slimmest relays in the industrial control with DIN rail mounting structure design. With these new products, it became easier for engineers to design layout and to arrange the components within limited cabinet space with more flexibility.

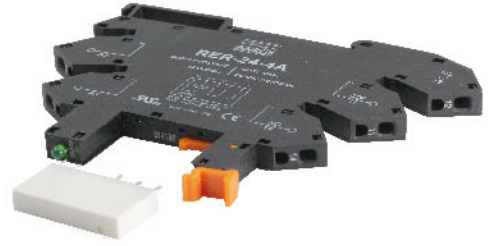


### 产品概述 / Product Description

“薄”意味着节省 - Slim Means Saving

町洋 RER 新系列薄型继电器，和其它系列产品，广泛应用于 PLC，数控系统，机器人，智能制造等控制系统的输出信号的安全驱动，是实现远程控制、生产加工、包装、输送、检测、仓储等各类设备和产品自动化装配线的理想选择。

The RER new slim relay of Dinkle, the same as the other product lines, is widely and safely used for the machine signal control in the systems of PLC, digital control system, robotics, smart manufacturing, etc. It benefits the machinery manufacturers to realize the remote control, product processing, packaging, material transit/delivery, storage and manufacturing of sorts of machines and automation assembly lines.



### 产品特点 / Product Features

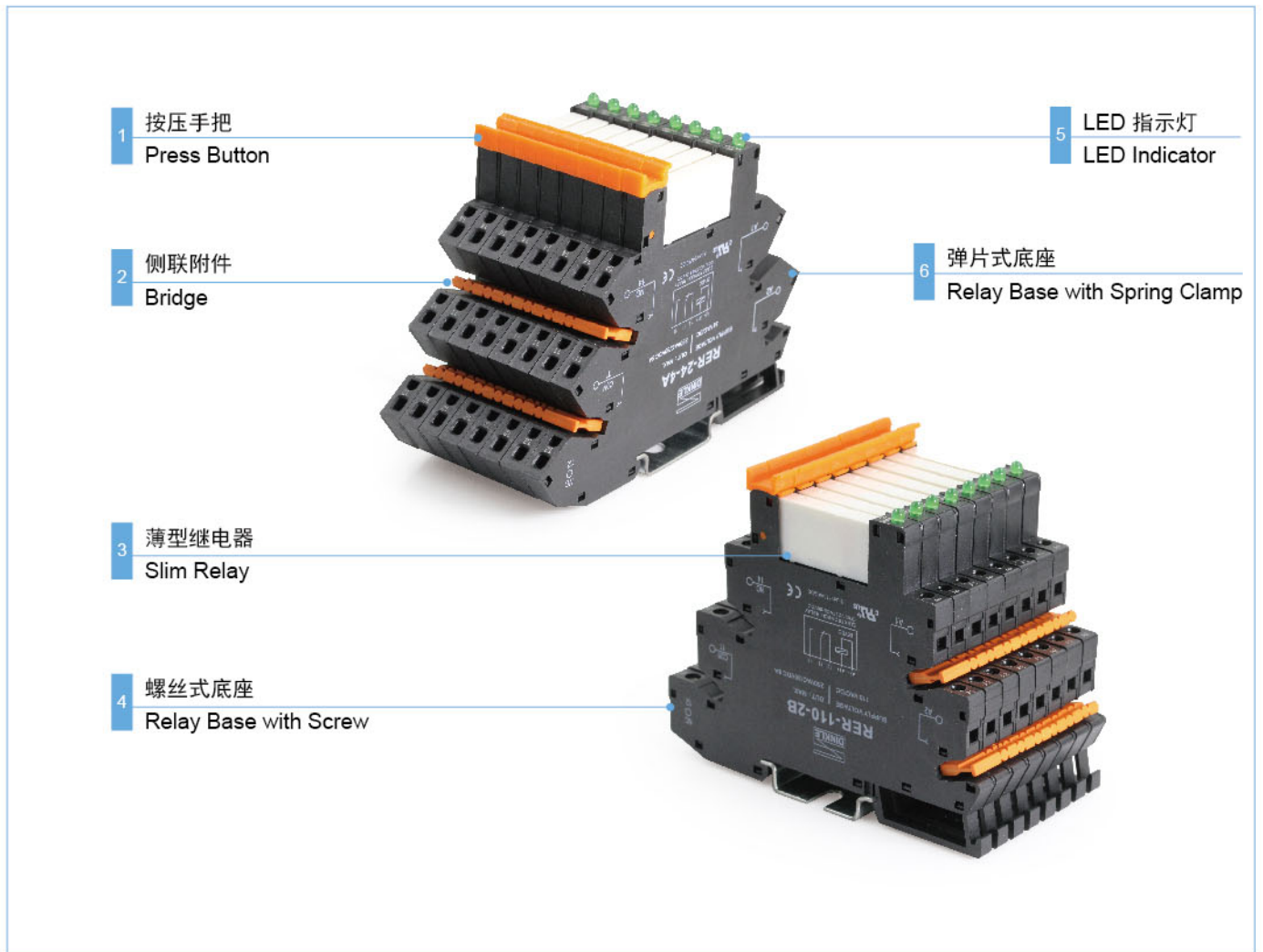
- 6.2mm 薄型壳体设计，节省 70% 以上安装空间  
6.2mm width design, saving more than 70% of installation space
- 低功耗，温升小  
Low power consumption, less temperature raising
- 专利结构设计，与传统继电器相比，动作速度快 3 倍  
Structure design with patent, it responds 3 times faster than normal relay
- LED 顶部高突显示，直观易辨识  
LED indicator, clearly and easily to be seen
- 顶部按压把手，装配更换容易，保护针脚不受折损  
Change relay easily with a press button and preventing broken of relay pins.
- 桥式整流器电路设计，交直流通用  
Inner design with bridge rectifier, AC or DC universal
- 底座内置浪涌吸收器，防过电压保护  
Surge Protection design inside socket to absorb the electrical peak
- 弹片接线，螺丝接线，自由选择  
Screw connection and Spring clamp connection optional
- 使用侧联附件，电路扩展便利  
Bridge accessory for quick wiring

### 产品认证 / Product Certification





## 产品结构 / Product Structure



## 行业应用 / Industries

像叮洋的优质端子系列产品一样，RER 系列继电器可广泛应用于汽车、安防监控、机床制造、家电生产、食品饮料、印刷包装、塑料及橡胶、金属加工、电子及半导体、水处理、新能源、物流、智能建筑、自动化等各行各业诸多领域。

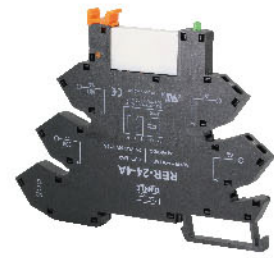
Like with fames of the terminals of Dinkle, the RER relay can be broadly used in most of the industries, such as automotive, security control, machine tools, appliance, food and beverage, printing and packaging, plastic and rubber, metal processing, electronic and semi-conductor, water supply, renewable energy.....

## 产品特性 / Product Features

- 6.2mm 超薄尺寸  
6.2mm, slim and flat
- 1C 转换触点  
1 change over contact
- 触点电流: 6A, 最大开关容量: 1500VA, 180W  
Contact current: 6A, Contact switching capacity: 1500VA, 180W
- 产品电压 24V, 110V, 230V 可选  
Input voltage option: 24V, 110V, 230V
- 螺丝接线, 弹片接线可选  
Screw connection or spring clamp connection



螺丝式 / Screw Connection

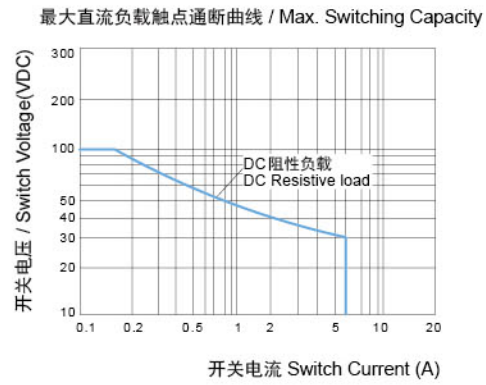
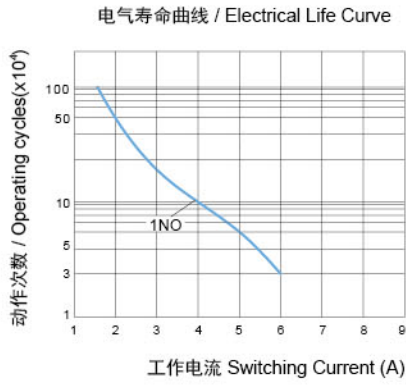


弹片式 / Spring Clamp Connection

## 规格说明 / Specification

线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VAC / DC	110VAC / DC	230VAC / DC
动作时间 (额定电压下) / Typical response time	≤8ms	≤8ms	≤8ms
释放时间 (额定电压下) / Typical release time	≤4ms	≤4ms	≤4ms
保护电路 / Drop-out voltage (at 23°C)	桥式整流器, 突波吸收器	桥式整流器	桥式整流器
LED工作指示 / LED Status display	Green	Green	Green
触点特性 / Contact Characteristics			
触点数 / No. of contacts	1C		
触点材料 / Contact material	AgNi 银镍合金		
触点负载 (阻性) / Contact rating (Res. load)	6A, 250VAC / 30VDC		
最大切换电压 / Max. switching voltage	400VAC / 125VDC		
最大切换电流 / Max. switching current	6A		
接触电阻 / Contact resistance	≤100mΩ (1A, 6VDC)		
机械耐久性 / Mechanical endurance	1 x 10 <sup>7</sup> 次		
电气耐久性 / Electrical endurance	3 x 10 <sup>4</sup> 次, NO, 6A, 250VAC / 30VDC, 1s通9s断		
一般特性 / General Characteristics			
介电强度 (线圈与触点间) / Dielectric strength (between coil & contacts)	4000VAC / 1min		
介电强度 (触点与触点间) / Dielectric strength (between contact& contacts)	1000VAC / 1min		
环境温度 / Ambient temperature	-40°C ~ 85°C		
环境湿度 / Ambient humidity	5% ~ 85% RH		
耐冲击 (稳定性) / Shock resistance (Functional)	49m/s <sup>2</sup>		
耐冲击 (强度) / Shock resistance (Destructive)	980m/s <sup>2</sup>		
耐振动 / Vibration resistance	10Hz ~55Hz 1mm (dual amplitude)		
适用线径 (AWG/mm2) / Solid/stranded wire	20-16 / 0.5-1.5		
接线类型 / Wiring Type	螺丝式、弹片式		
端子台螺丝扭矩 / Screw Torque	0.5Nm		
尺寸(H x W x T) / Dimensions (H x W x T)mm	螺丝式: 96 x 78.8 x 6.2 弹片式: 103 x 78.8 x 6.2		
重量 / Weight per piece	约 30g		

## 性能曲线图 / Performance Curve

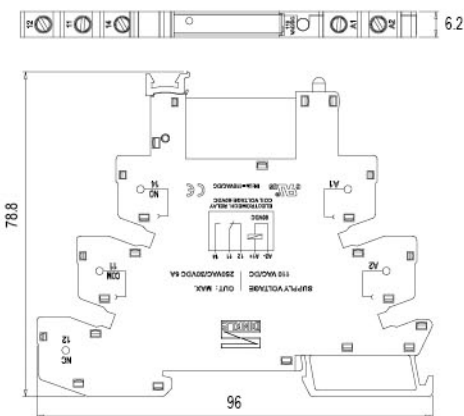


## 订货型号一览表 / Ordering Information

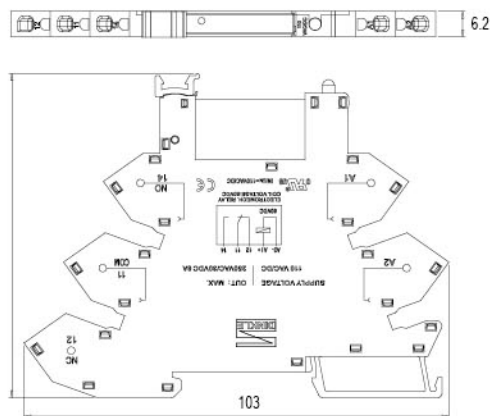
成套规格 Ordering No./Set	包装数量 MOQ	控制电压 Voltage	接线方式 Connection of Wiring	触点形式 Contact Configuration	工作电流 Switching Current	底座型号 Relay Base	继电器型号 Relay
RER-24-1A	20	24V	螺丝 Screw	1C	6A	0149-47-04F	RER-H1C-D24
RER-110-2B		110V				0149-48-04F	RER-H1C-D60
RER-230-3B		230V				0149-49-04F	RER-H1C-D60
RER-24-4A	20	24V	弹片 Spring Clamp	1C	6A	0149-4A-04F	RER-H1C-D24
RER-110-5B		110V				0149-4B-04F	RER-H1C-D60
RER-230-6B		230V				0149-4C-04F	RER-H1C-D60

配件规格 Ordering No./Part	包装数量 MOQ	控制电压 Voltage	配件说明 Description	接线方式 Connection of Wiring	触点形式 Contact Configuration	最大切换容量 Switching Capacity in Max.
0149-47-04F	20	24V	继电器底座 Relay Base	螺丝 Screw	1C	8A / 300VAC
0149-48-04F		110V				
0149-49-04F		230V				
0149-4A-04F	20	24V	继电器底座 Relay Base	弹片 Spring Clamp	1C	8A / 300VAC
0149-4B-04F		110V				
0149-4C-04F		230V				
0149-4S-20	10	-	短路片 Bridge	-	-	-
RER-H1C-D24	100	24VDC	继电器 Relay	-	1C	6A / 250VAC
RER-H1C-D60		60VDC				

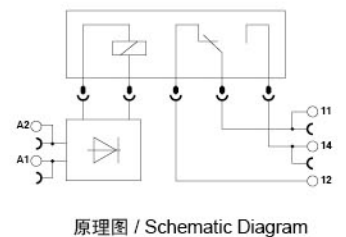
## 尺寸与接线图 / Dimensions and Wiring



螺丝式 / Screw Connection



弹片式 / Spring Clamp Connection

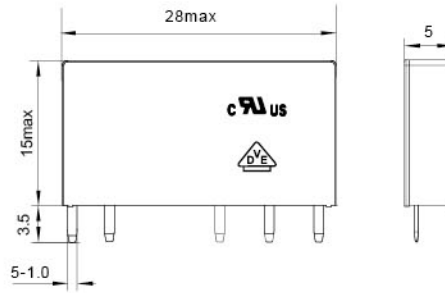


原理图 / Schematic Diagram



## 薄型继电器说明 / Specifications of Slim Relay

- 6.2mm 超薄尺寸  
6.2mm, Small size
- 6A 触点切换能力  
6A contact switching capacity
- 满足VDE0700 / 0631 加强绝缘需求  
Enhanced isolation Appliance with VDE0700/0631
- 高灵敏度，功耗约为 0.17W  
High sensitivity, power consumption appr. 0.17W
- 环保产品（符合RoHS）  
Appliance with Rohs Directive



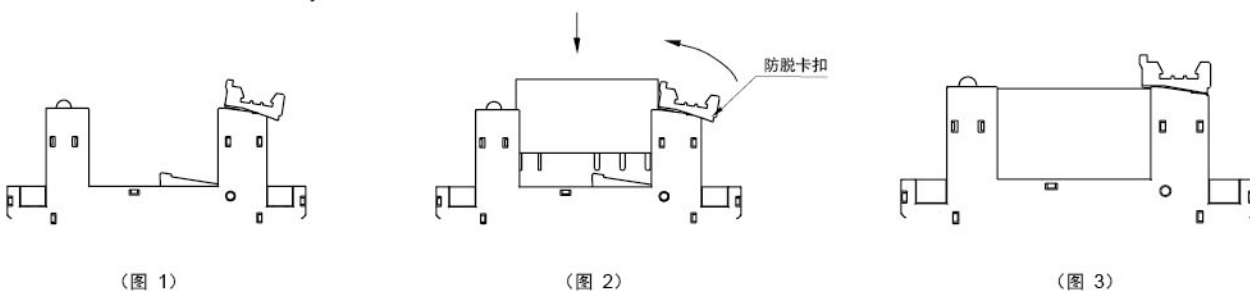
订货规格 Part Number	RER-H1C-D24	RER-H1C-D60
工作电压 / Rated Voltage	24VDC	60VDC
接触电阻 <sup>(1)</sup> / Contact Resistance	非镀金触点: ≤100mΩ (1A 6VDC)	
触点材料 / Contact Material	AgNi 银镍合金	
触点负载(阻性) / Contact Rating (Res. load)	6A 250VAC / 30VDC	
机械耐久性 / Mechanical Endurance	1x10 <sup>7</sup> 次	

## 使用注意事项 / Notice

### • 安装继电器 / Mounting

将继电器插座防脱卡簧呈现于打开状态（见图 1），将继电器对准插座主体型腔（见图 2）。然后顺时针扳动防脱卡扣，同时轻轻下压继电器，直至继电器完全装入插座（见图 3）。

Push the relay locker on the top of relay base to "open" position, then put the relay into its socket and press down slightly, finally push the locker back and lock the relay.



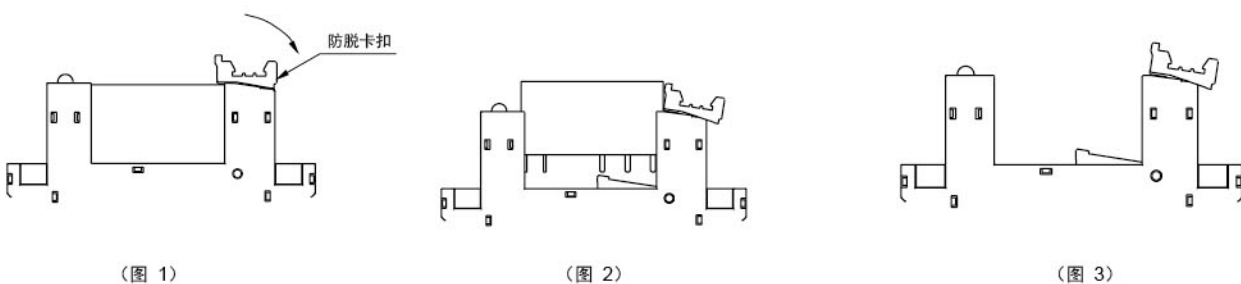
### • 拆卸继电器 / Dis-Mounting

将插座的防脱卡扣顺时针扳动即可拆卸继电器（详见附图）。

注：拆卸继电器时，请注意继电器会突然被弹出而导致继电器跌落或丢失。故拆卸继电器时，请务必先用手捏住继电器再顺时针扳动防脱卡扣拆卸继电器。

Push the relay locker "open" to separate the relay from its base.

Attention: When dismantling relay, please catch the relay and unlock it to prevent the relay from jumping out suddenly and dropping down.



# Compact Relay

## 紧凑型继电器

底座宽度仅有 16mm，适用于各种电气控制领域。于机械设备和系统集成项目中可节约最大的柜内空间。

Relay Base width is only 16mm, applicable to all kinds of electrical control fields. It can maximize space saving in mechanical equipment and system intergration projects.



### 产品概述 / Product Description

Dinkle RER 系列工业继电器更贴合适用工业控制运用的实际需求，安装调试便利，工作稳定可靠，使用寿命更长。

Dinkle's RER series of Industrial Relay can fit the actual need of the appropriate application in industrial control. It is stable and reliable with longer life.



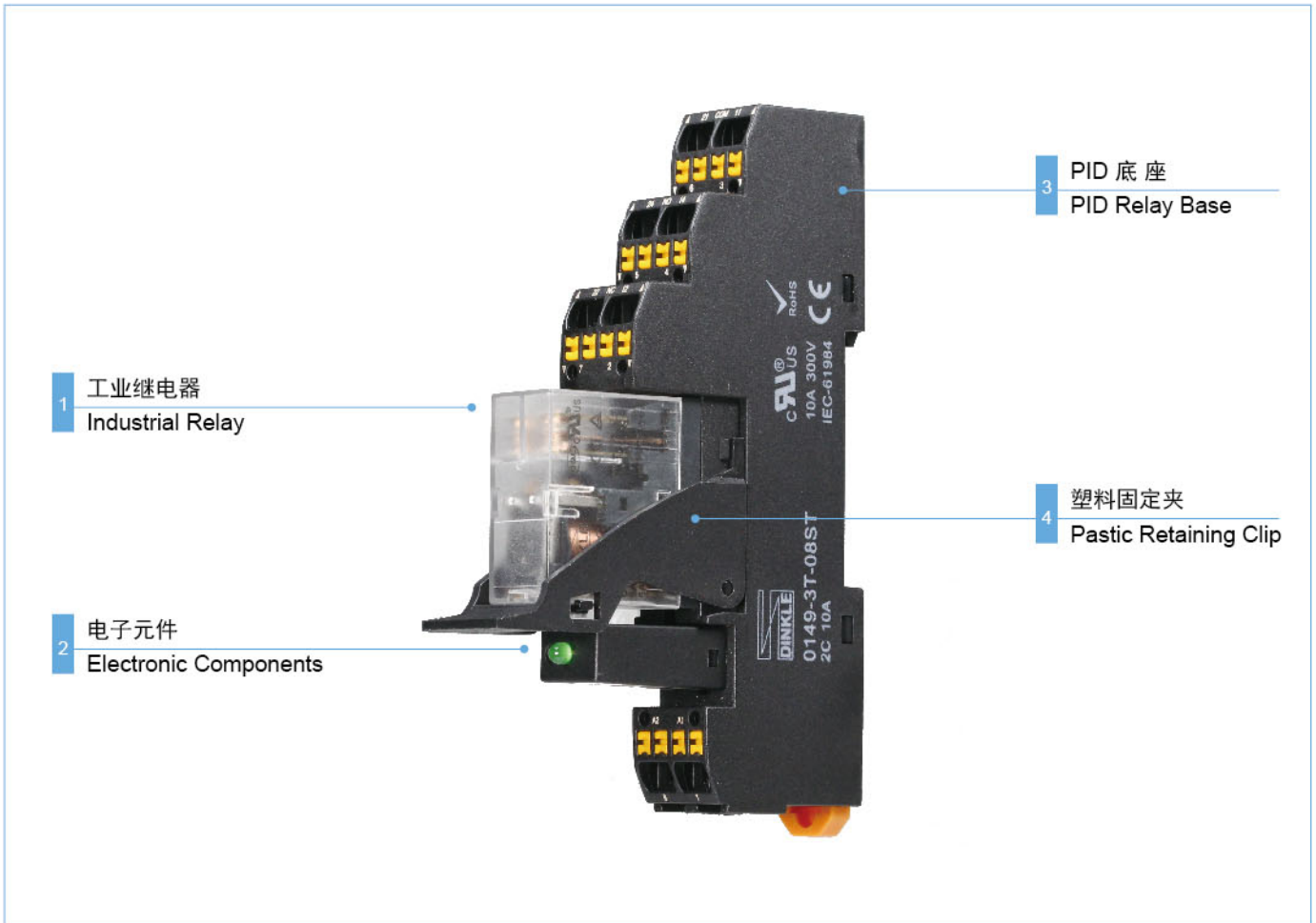
### 产品特点 / Product Features

- 体积小，额定容量高  
Small Size, high contact switching capacity
- 结构合理，用途广  
Compact design wide range of application
- 多种规格，配有双向指示灯装置  
Various models, with option of 2 way led indicator
- 触点使用工业用银氧化锡  
AgSnO<sub>2</sub> alloy Contact

### 产品认证 / Product Certification



### 产品结构 / Product Structure



### 行业应用 / Industries

像町洋的优质端子系列产品一样，RER 系列继电器可广泛应用于汽车、安防监控、机床制造、家电生产、食品饮料、印刷包装、塑料及橡胶、金属加工、电子及半导体、水处理、新能源、物流、智能建筑、自动化等各行各业诸多领域。

Like with fames of the terminals of Dinkle, the RER relay can be broadly used in most of the industries, such as automotive, security control, machine tool, appliance, food and beverage, printing and packaging, plastic and rubber, metal processing, electronic and semi-conductor, water supply, renewable energy.....



**RER-J1C-XXXX**

① ② ③

- ① J = 产品规格 / Spec.  
 ② 1C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V

**规格说明 / Specification**

线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	21.8mA	7.6mA	3.9mA
线圈电阻 / Coil resistance	1100Ω±10%	6300Ω±15%	23500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.53W	1.0VA	1.0VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	1C		
阻性负载(AC-1) / Resistive load (AC-1)	12A/250VAC, 30VDC		
马达负载 (AC-15) / Motor load (AC-15)	1/2HP, 240VAC		
切换功率(阻性) / Operating power (resistive)	3000VA, 360W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgSnO <sub>2</sub> 银氧化锡		
接触电阻 / Contact resistance	≤50mΩ		
介电强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	3000VAC/1min		
触点与线圈间 / Between contact and coil	5000VAC/1min		
绝缘电阻 / Insulation resistance	≥1000MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤10ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-40~+55°C (Non-freezing condition)		
环境湿度 / Ambient humidity	55%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>5</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 19g		

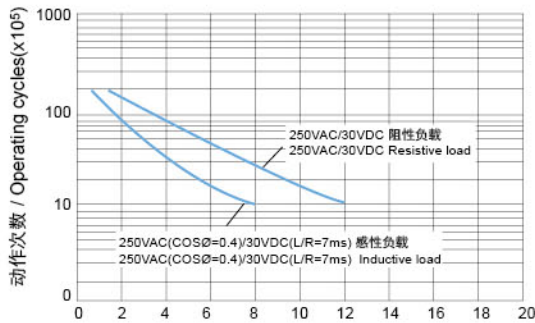
# 继电器底座及配件选型表 / Relay Base and Accessories

紧凑型继电器

订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-J1C-XXXX	1C, 12A, 带指示灯 1C, 12A, with indicator	20	--
0149-3T-05ST	直插式底座, 1C, 12A PID, 1C, 12A	20	RER-J1C-XXXX
0149-30-05A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-J1C-XXXX
0149-33-05E	压线框连接底座, DIN 导轨安装 Clamping connection relay base, DIN rail mounting	10	RER-J1C-XXXX
0149-3U-02	短路片 Bridge	10	0149-3T-05ST 0149-3T-08ST
0149-32	塑料固定夹 Pastic retaining clip	10	0149-33-05E
0149-36	6~250VDC 电压峰值抑制元件 6~250VDC Volt.suppression component	10	0149-33-05E
0149-35-24	6-24VAC / DC LED 工作指示元件 6-24VAC / DC LED indicator	10	0149-33-05E
0149-35-240	110~240VAC / DC LED 工作指示元件 110~240VAC / DC LED indicator	10	0149-33-05E

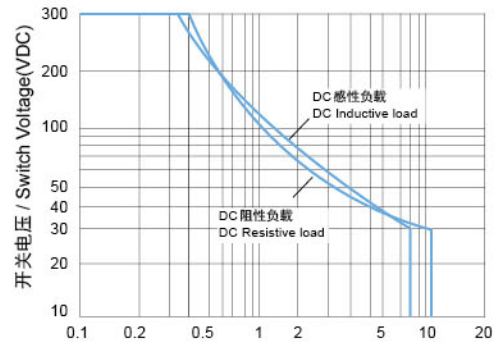
## 性能曲线图 / Performace Curve

电气寿命曲线 / Electrical Life Curve



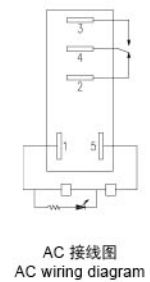
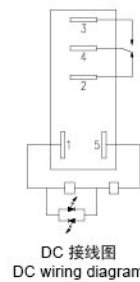
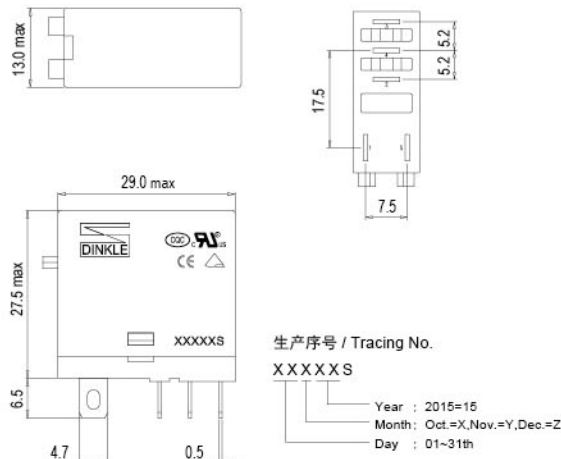
工作电流 Switching Current (A)

开关功率 / Switching Power



开关电流 Switch Current (A)

## 电气连接及尺寸图 / Electrical Connections and Dimensions



# RER-J2C-XXXX

①      ②      ③

- ① J = 产品规格 / Spec.  
 ② 2C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V



## 规格说明 / Specification

线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	21.8mA	7.6mA	3.9mA
线圈电阻 / Coil resistance	1100Ω±10%	6300Ω±15%	23500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.53W	1.0VA	1.0VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	2C		
阻性负载(AC-1) / Resistive load (AC-1)	8A/250VAC, 30VDC		
马达负载 (AC-15) / Motor load (AC-15)	1/3HP, 240VAC		
切换功率(阻性) / Operating power (resistive)	1250VA, 150W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgSnO <sub>2</sub> 银氧化锡		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	3000VAC/1min		
触点与线圈间 / Between contact and coil	5000VAC/1min		
绝缘电阻 / Insulation resistance	≥1000MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤10ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-40~+55°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>5</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 19g		

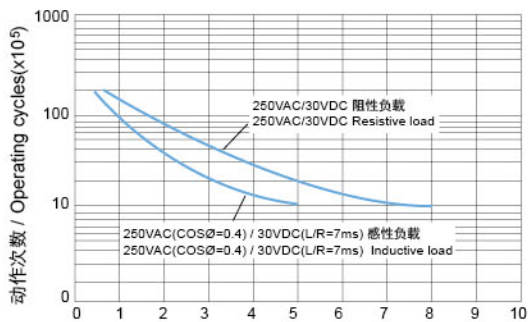
## 继电器底座及配件选型表 / Relay Base and Accessories

订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-J2C-XXXX	2C, 8A, 带指示灯 2C, 8A, with indicator	20	--
0149-3T-08ST	直插式底座, 2C, 8A PID, 2C, 8A	20	RER-J2C-XXXX
0149-30-08A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-J2C-XXXX
0149-33-08E	压线框连接底座, DIN 导轨安装 Clamping connection relay base, DIN rail mounting	10	RER-J2C-XXXX
0149-3U-02	短路片 Bridge	10	0149-3T-05ST 0149-3T-08ST
0149-32	塑料固定夹 Pastic retaining clip	10	0149-33-08E
0149-36	6~250VDC 电压峰值抑制元件 6~250VDC Volt.suppression component	10	0149-33-08E
0149-35-24	6~24VAC / DC LED 工作指示元件 6~24VAC / DC LED indicator	10	0149-33-08E
0149-35-240	110~240VAC / DC LED 工作指示元件 110~240VAC / DC LED indicator	10	0149-33-08E

紧凑型继电器

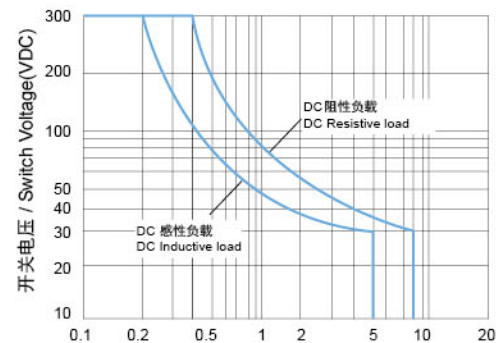
## 性能曲线图 / Performace Curve

电气寿命曲线 / Electrical life curve



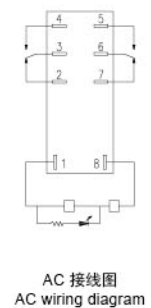
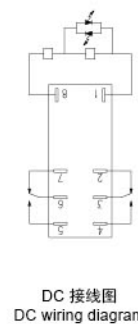
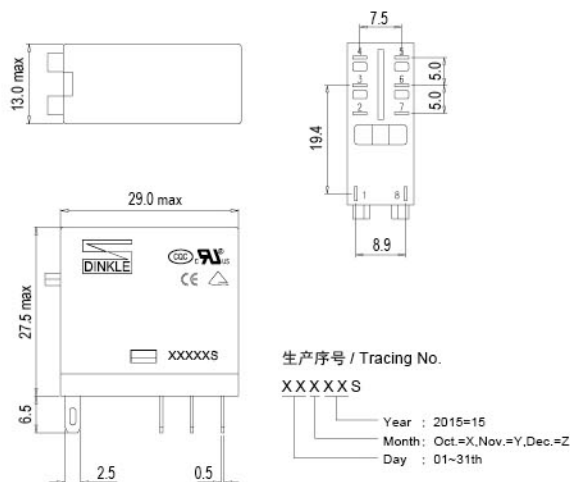
工作电流 Switching Current (A)

开关功率 / Switching Power



开关电流 Switch Current (A)

## 电气连接及尺寸图 / Electrical Connections and Dimensions





## 底座产品性能说明 / Specifications of Relay Base

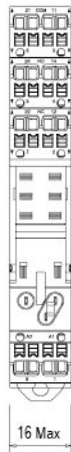


订货规格 / Part Number	0149-3T-05ST	0149-3T-08ST
额定负载电流 / Rated load current	12A	8A
触点数 / No. of contacts	1C	2C
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2500V/s	2500V/s
螺钉扭矩 / Screw torque	-	-
外连接导线 / External connection wire	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )
使用环境 / Ambient temperature	-40~+85 C	-40~+85 C
重量 / Weight	About 35g	About 43g
最小包装数 / Min. packing quantity	20pcs	20pcs
通用型号 / Mating part		
配用附件表 / Accessories	RER-J1C	RER-J2C
短路片 / Bridge	0149-3U-02	0149-3U-02
塑料固定夹 / Pastic retaining clip	0149-32	0149-32
金属固定夹 / Metal retaining clip	-	-
电子元件 / Electronic components	0149-35 / 0149-36	0149-35 / 0149-36
导轨 / DIN rail	TS-35	TS-35

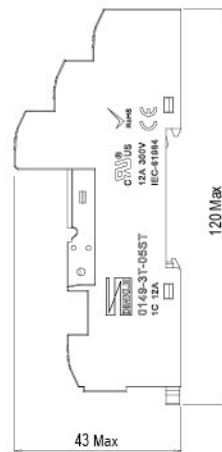
## 外形尺寸, 安装尺寸(mm) / Overall Dimensions, the Size of the Installation



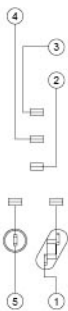
0149-3T-05ST



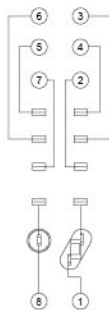
0149-3T-08ST



## 端子配置内部接线图 / Terminal Configuration and Internal Wiring Diagram



0149-3T-05ST



0149-3T-08ST

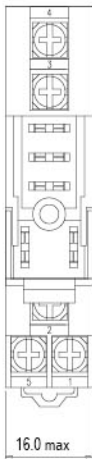
## 底座产品性能说明 / Specifications of Relay Base



订货规格 / Part Number	0149-30-05A	0149-30-08A
额定负载电流 / Rated load current	16A	10A
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2500V/s	2500V/s
螺钉扭矩 / Screw torque	0.8Nm	0.8Nm
外连接导线 / External connection wire	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )
使用环境 / Ambient temperature	-40~+85℃	-40~+85℃
重量 / Weight	About 22g	About 25g
最小包装数 / Min. packing quantity	10pcs	10pcs
通用型号 / Mating part	RER-J1C	RER-J2C
配用附件表 / Accessories		
塑料固定夹 / Plastic retaining clip	-	-
金属固定夹 / Metal retaining clip	-	-
电子元件 / Electronic components	-	-
导轨 / DIN rail	TS-35	TS-35

紧凑型继电器

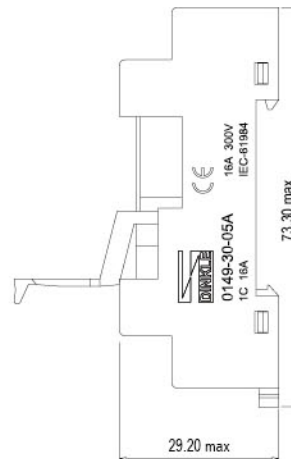
## 外形尺寸，安装尺寸(mm) / Overall Dimensions, the Size of the Installation



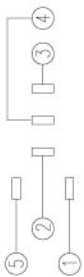
0149-30-05A



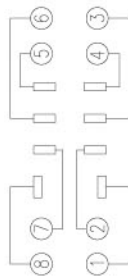
0149-30-08A



## 端子配置内部接线图 / Terminal Configuration and Internal Wiring Diagram



0149-30-05A



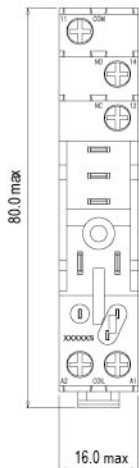
0149-30-08A

## 底座产品性能说明 / Specifications of Relay Base

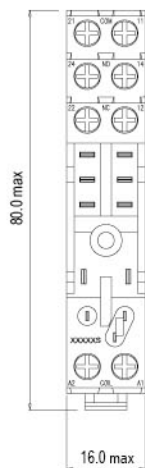


订货规格 / Part Number	0149-33-05E	0149-33-08E
额定负载电流 / Rated load current	16A	10A
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2500V/s	2500V/s
螺钉扭矩 / Screw torque	1.0Nm	1.0Nm
外连接导线 / External connection wire	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )
使用环境 / Ambient temperature	-40~+85 C	-40~+85 C
重量 / Weight	About 33g	About 33g
最小包装数 / Min. packing quantity	10pcs	10pcs
通用型号 / Mating part	RER-J1C	RER-J2C
配用附件表 / Accessories		
塑料固定夹 / Pastic retaining clip	0149-32 (@1pcs)	0149-32 (@1pcs)
金属固定夹 / Metal retaining clip	-	-
电子元件 / Electronic components	0149-36 / 0149-35	0149-36 / 0149-35
导轨 / DIN rail	TS-35	TS-35

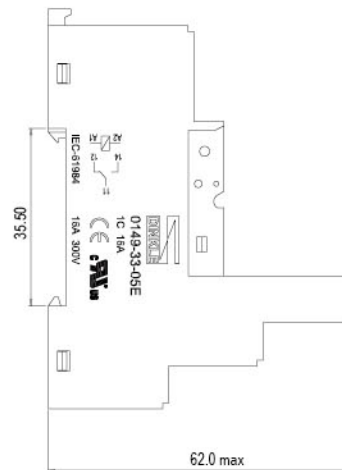
## 外形尺寸, 安装尺寸(mm) / Overall Dimensions, the Size of the Installation



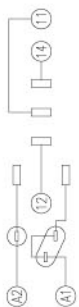
0149-33-05E



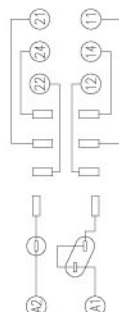
0149-33-08E



## 端子配置内部接线图 / Terminal Configuration and Internal Wiring Diagram



0149-33-05E



0149-33-08E

# General Relay

## 通用型继电器

在电气控制领域中可插拔的工业继电器一般用于电气隔离、电气传动、或是放大和信号间的配合，如 DCS、PLC、或现场总线系统及现场传感器与执行器之间的应用。

In electrical control application, the pluggable industrial relay is generally used in electrical isolation, electrical transmission, and amplifying the electrical signals, such as DCS, PLC, or the application between I/O systems with on-site sensors and actuators in many kinds of field bus systems.





### 产品概述 / Product Description

Dinkle 通用型工业继电器更贴合适用工业控制运用的实际需求，安装调试便利，工作稳定可靠，使用寿命更长。

Dinkle's general Industrial Relay fits the actual needs of the appropriate application in industrial control. It is stable and reliable with longer life.



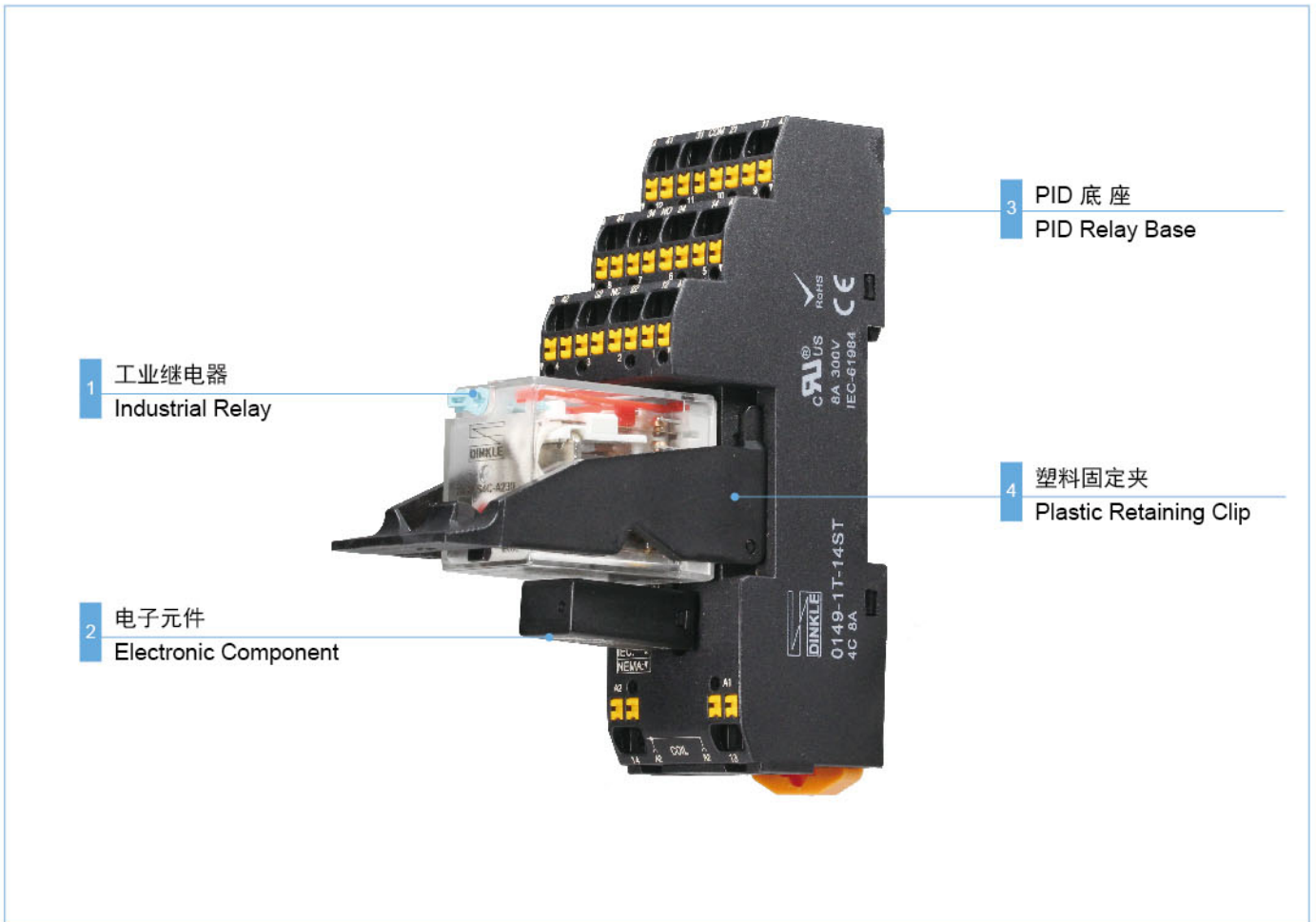
### 产品特点 / Product Features

- 体积小，额定容量高  
Small size, high contact switching capacity
- 提供带点动或旋转自锁按钮功能，所有提供标准配置的动作指示窗  
Products are designed with mechanical contact indicators, press button for inching contacts or rotating pole with latching function
- 结构合理，用途广  
Compact design, wide range of application
- 多种规格配有双向指示灯装置  
Various models, with option of 2-way LED indicator
- 触点使用工业用银合金  
Ag alloy Contact

### 产品认证 / Product Certification



### 产品结构 / Product Structure



### 行业应用 / Industries

像町洋的优质端子系列产品一样，RER 系列继电器可广泛应用于汽车、安防监控、机床制造、家电生产、食品饮料、印刷包装、塑料及橡胶、金属加工、电子及半导体、水处理、新能源、物流、智能建筑、自动化等各行各业诸多领域。

Like with fames of the terminals of Dinkle, the RER relay can be broadly used in most of the industries, such as automotive, security control, machine tools, appliance, food and beverage, printing and packaging, plastic and rubber, metal processing, electronic and semi-conductor, water supply, renewable energy.....

**RER-S2C-XXXX**

① ② ③

- ① S = 产品规格 / Spec.  
 ② 2C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V

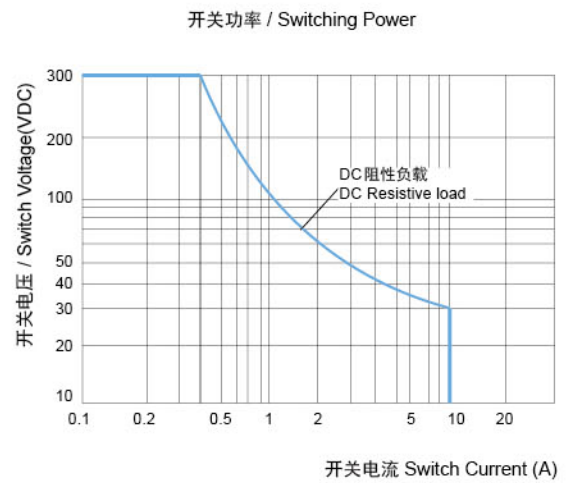
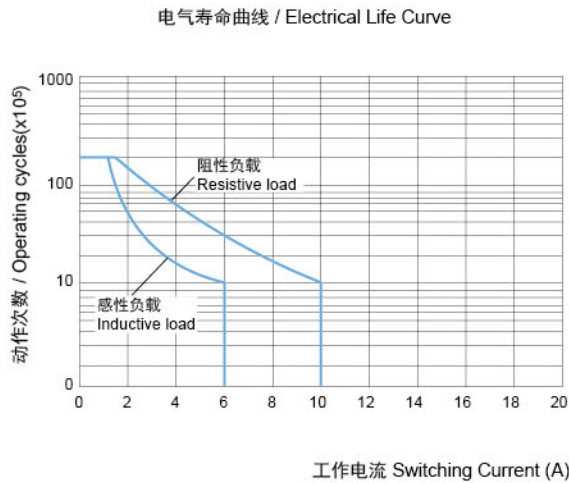
**规格说明 / Specification**

线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	36.9mA	9.2mA	5.5mA
线圈电阻 / Coil resistance	640Ω±10%	4430Ω±15%	16500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.9W	1.2VA	1.2VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	2C		
阻性负载(AC-1) / Resistive load (AC-1)	10A/250VAC, 30VDC		
马达负载(AC-15) / Motor load (AC-15)	1/2HP 240VAC		
切换功率(阻性) / Operating power (resistive)	2500VA, 300W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgNi 银镍合金		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	1500VAC/1min		
触点与线圈间 / Between contact and coil	2000VAC/1min		
绝缘电阻 / Insulation resistance	≥500MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤20ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-55~+70°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>5</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 35g		

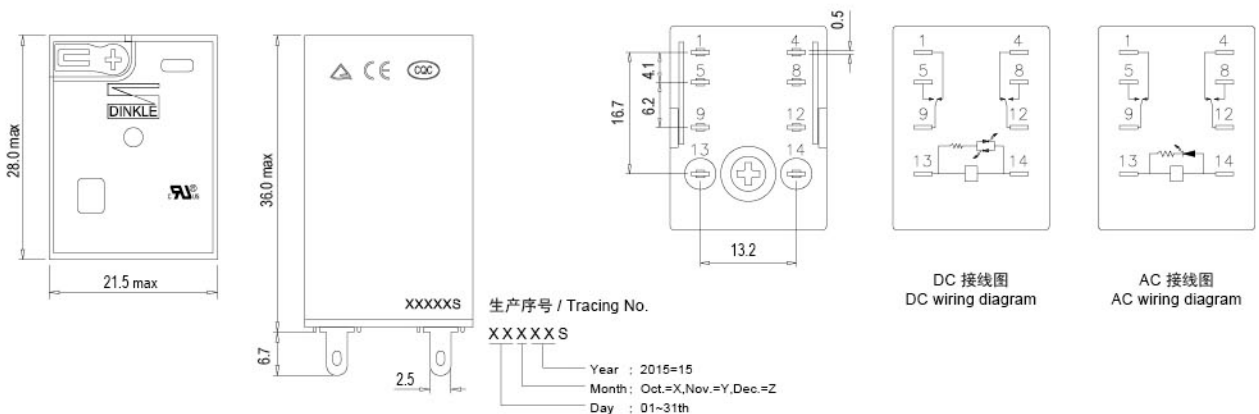
## 继电器底座及配件选型表 / Relay Base and Accessories

订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-S2C-XXXX	2C, 10A, 带指示灯与控制按钮 2C, 10A, with indicator and control button	20	--
0149-1T-08ST	直插式底座, 2C, 12A PID, 2C, 12A	10	RER-S2C-XXXX
0149-10-08A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-S2C-XXXX
0149-11ES	金属固定夹 Metal retaining clip	20	0149-10-08A
0149-13-08E	压线框连接底座, DIN导轨安装 Clamping connection relay base, DIN rail mounting	10	RER-S2C-XXXX
0149-14	塑料固定夹 Pastic retaining clip	5	0149-13-08E
0149-36	6~250VDC 电压峰值抑制元件 6~250VDC Volt.suppression component	10	0149-13-08E
0149-35-24	6-24VAC / DC LED 工作指示元件 6-24VAC / DC LED indicator	10	0149-13-08E
0149-35-240	110-240VAC / DC LED 工作指示元件 110-240VAC / DC LED indicator	10	0149-13-08E

## 性能曲线图 / Performace Curve



## 电气连接及尺寸图 / Electrical Connections and Dimensions





**RER-S4C-XXXX**

① ② ③

- ① S = 产品规格 / Spec.  
 ② 4C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V

**规格说明 / Specification**

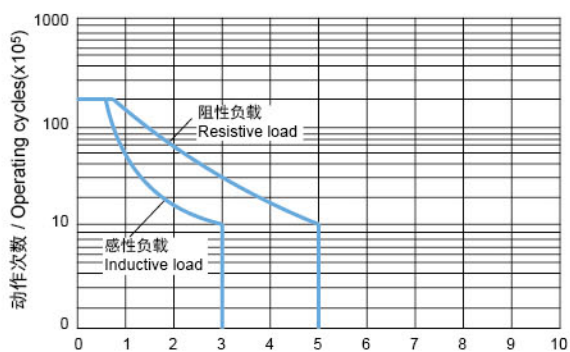
线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	36.9mA	9.2mA	5.5mA
线圈电阻 / Coil resistance	640Ω±10%	4430Ω±15%	16500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.9W	1.2VA	1.2VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	4C		
阻性负载(AC-1) / Resistive load (AC-1)	5A/250VAC, 30VDC		
马达负载 (AC-15) / Motor load (AC-15)	1/3HP, 240VAC		
切换功率(阻性) / Operating power (resistive)	1250VA, 150W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgNi 银镍合金		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	1500VAC/1min		
触点与线圈间 / Between contact and coil	2000VAC/1min		
绝缘电阻 / Insulation resistance	≥500MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤20ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-55~+70°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>5</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 35g		

## 继电器底座及配件选型表 / Relay Base and Accessories

订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
<b>RER-S4C-XXXX</b>	4C, 5A, 带指示灯与控制按钮 4C, 5A, with indicator and control button	20	--
<b>0149-1T-14ST</b>	直插式底座, 4C, 8A PID, 4C, 8A	10	RER-S4C-XXXX
<b>0149-10-14A</b>	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-S4C-XXXX
<b>0149-11</b>	金属固定夹 Metal retaining clip	20	0149-10-14A
<b>0149-13-14E</b>	压线框连接底座, DIN 导轨安装 Clamping connection relay base, DIN rail mounting	10	RER-S4C-XXXX
<b>0149-14</b>	塑料固定夹 Pastic retaining clip	5	0149-13-14E
<b>0149-36</b>	6~250VDC 电压峰值抑制元件 6~250VDC Volt.suppression component	10	0149-13-14E
<b>0149-35-24</b>	6-24VAC / DC LED 工作指示元件 6-24VAC / DC LED indicator	10	0149-13-14E
<b>0149-35-240</b>	110-240VAC / DC LED 工作指示元件 110-240VAC / DC LED indicator	10	0149-13-14E

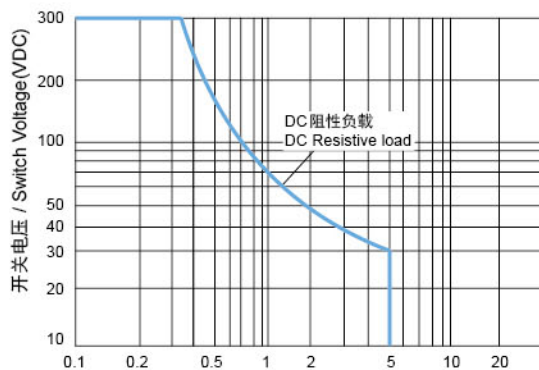
## 性能曲线图 / Performace Curve

电气寿命曲线 / Electrical Life Curve



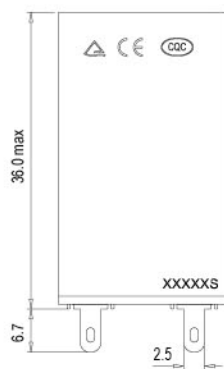
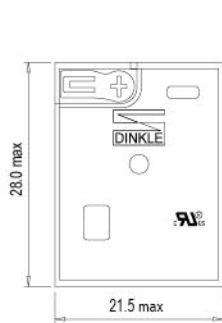
工作电流 Switching Current (A)

开关功率 / Switching Power



开关电流 Switch Current (A)

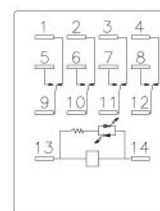
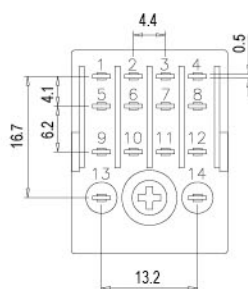
## 电气连接及尺寸图 / Electrical Connections and Dimensions



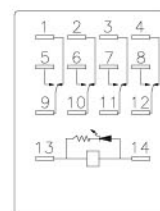
生产序号 / Tracing No.

XXXXXS

Year : 2015=15  
Month : Oct.=X, Nov.=Y, Dec.=Z  
Day : 01~31th



DC 接线图  
DC wiring diagram



AC 接线图  
AC wiring diagram

**RER-M2C-XXXX**

① ② ③

- ① M = 产品规格 / Spec.  
 ② 2C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V

**规格说明 / Specification**

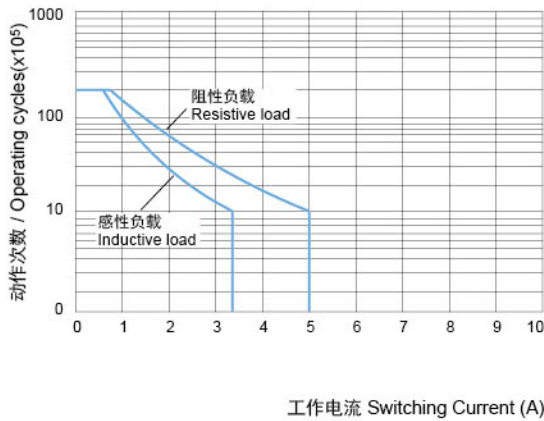
线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	36.9mA	9.2mA	5.5mA
线圈电阻 / Coil resistance	640Ω±10%	4430Ω±15%	16500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.9W	1.2VA	1.2VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	2C		
阻性负载(AC-1) / Resistive load (AC-1)	5A/250VAC, 30VDC		
马达负载 (AC-15) / Motor load (AC-15)	1/3HP 240VAC		
切换功率(阻性) / Operating power (resistive)	1250VA, 150W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgNi 银镍合金		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	1500VAC/1min		
触点与线圈间 / Between contact and coil	2000VAC/1min		
绝缘电阻 / Insulation resistance	≥500MQ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤20ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-55~+70°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>5</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 35g		

# 继电器底座及配件选型表 / Relay Base and Accessories

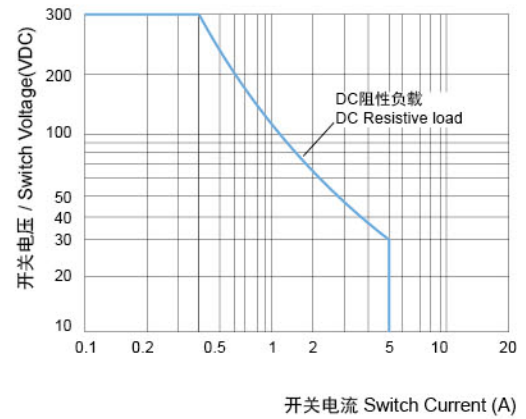
订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-M2C-XXXX	2C, 5A, 带指示灯与控制按钮 2C, 5A, with indicator and control button	20	--
0149-1T-08ST	直插式底座, 2C, 12A PID, 2C, 12A	10	RER-M2C-XXXX
0149-10-08A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-M2C-XXXX
0149-11ES	金属固定夹 Metal retaining clip	20	0149-10-08A
0149-13-08E	压线框连接底座, DIN 导轨安装 Clamping connection relay base, DIN rail mounting	10	RER-M2C-XXXX
0149-14	塑料固定夹 Pastic retaining clip	5	0149-13-08E
0149-36	6~250VDC 电压峰值抑制元件 6~250VDC Volt.suppression component	10	0149-13-08E
0149-35-24	6-24VAC / DC LED 工作指示元件 6-24VAC / DC LED indicator	10	0149-13-08E
0149-35-240	110-240VAC / DC LED 工作指示元件 110-240VAC / DC LED indicator	10	0149-13-08E

## 性能曲线图 / Performace Curve

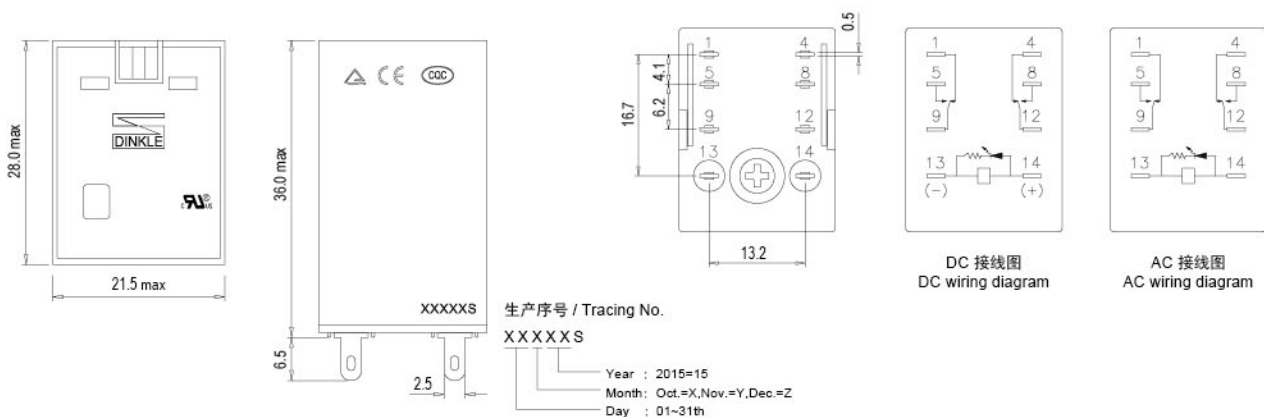
电气寿命曲线 / Electrical Life Curve



开关功率 / Switching Power



## 电气连接及尺寸图 / Electrical Connections and Dimensions





**RER-M4C-XXXX**

① ② ③

- ① M = 产品规格 / Spec.  
 ② 4C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V

**规格说明 / Specification**

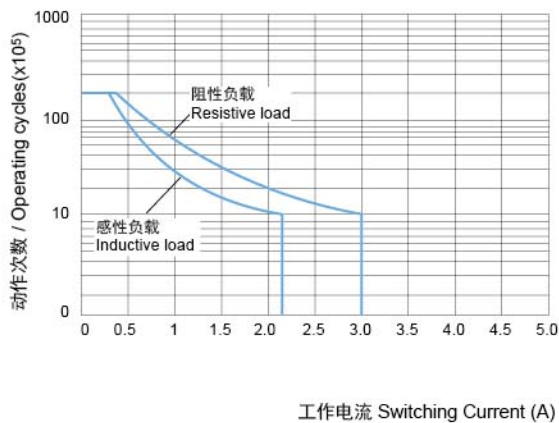
线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	36.9mA	9.2mA	5.5mA
线圈电阻 / Coil resistance	640Ω±10%	4430Ω±15%	16500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.9W	1.2VA	1.2VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	4C		
阻性负载(AC-1) / Resistive load (AC-1)	3A/250VAC, 30VDC		
马达负载 (AC-15) / Motor load (AC-15)	1/6HP 240VAC		
切换功率(阻性) / Operating power (resistive)	750VA, 90W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgNi 银镍合金		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	1500VAC/1min		
触点与线圈间 / Between contact and coil	2000VAC/1min		
绝缘电阻 / Insulation resistance	≥500MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤20ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-55~+70°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>5</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 35g		

## 继电器底座及配件选型表 / Relay Base and Accessories

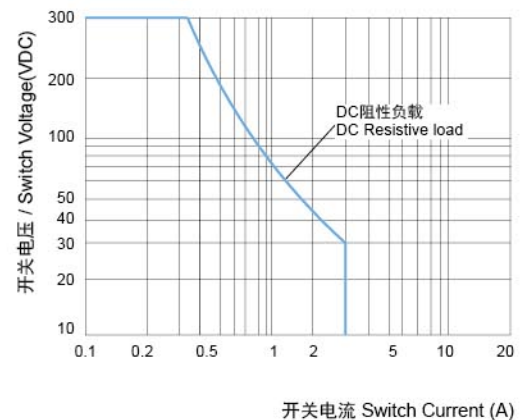
订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-M4C-XXXX	4C, 3A, 带指示灯与控制按钮 4C, 3A, with indicator and control button	20	--
0149-1T-14ST	直插式底座, 4C, 8A PID, 4C, 8A	10	RER-M4C-XXXX
0149-10-14A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-M4C-XXXX
0149-11	金属固定夹 Metal retaining clip	20	0149-10-14A
0149-13-14E	压线框连接底座, DIN导轨安装 Clamping connection relay base, DIN rail mounting	10	RER-M4C-XXXX
0149-14	塑料固定夹 Pastic retaining clip	5	0149-13-14E
0149-36	6~250VDC 电压峰值抑制元件 6~250VDC Volt.suppression component	10	0149-13-14E
0149-35-24	6-24VAC / DC LED 工作指示元件 6-24VAC / DC LED indicator	10	0149-13-14E
0149-35-240	110-240VAC / DC LED 工作指示元件 110-240VAC / DC LED indicator	10	0149-13-14E

## 性能曲线图 / Performace Curve

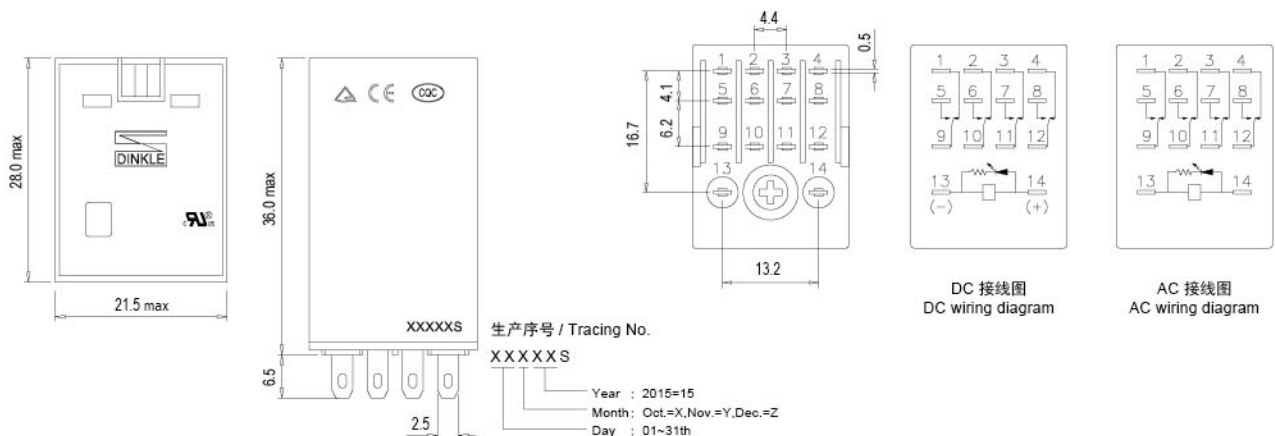
电气寿命曲线 / Electrical Life Curve



开关功率 / Switching Power



## 电气连接及尺寸图 / Electrical Connections and Dimensions





订货规格 / Part Number	0149-1T-08ST	0149v-1T-14ST
额定负载电流 / Rated load current	12A	8A
触点数 / No. of contacts	2C	4C
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2500V/s	2500V/s
螺钉扭矩 / Screw torque	-	-
外连接导线 / External connection wire	20-16 / 0.5-1.5	20-16 / 0.5-1.5
使用环境 / Ambient temperature	-40~+85℃	-40~+85℃
重量 / Weight	About 80g	About 80g
最小包装数 / Min. packing quantity	10pcs	10pcs
通用型号 / Mating part	RER-M2C / RER-S2C	RER-M4C / RER-S4C
配用附件表 / Accessories		
塑料固定夹 / Pastic retaining clip	0149-14	0149-14
金属固定夹 / Metal retaining clip	-	-
电子元件 / Electronic components	0149-35 / 0149-36	0149-36 / 0149-35
导轨 / DIN rail	TS-35	TS-35



订货规格 / Part Number	0149-13-08E	0149-13-14E
额定负载电流 / Rated load current	12A	10A
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2500V/s	2500V/s
螺钉扭矩 / Screw torque	1.0Nm	1.0Nm
外连接导线 / External connection wire	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )
使用环境 / Ambient temperature	-40~+85℃	-40~+85℃
重量 / Weight	About 50g	About 62g
最小包装数 / Min. packing quantity	10pcs	10pcs
通用型号 / Mating part	RER-M2C / RER-S2C	RER-M4C / RER-S4C
配用附件表 / Accessories		
塑料固定夹 / Pastic retaining clip	0149-14 (@1pcs)	0149-14 (@1pcs)
金属固定夹 / Metal retaining clip		
电子元件 / Electronic components	0149-36 / 0149-35	0149-36 / 0149-35
导轨 / DIN rail	TS-35	TS-35

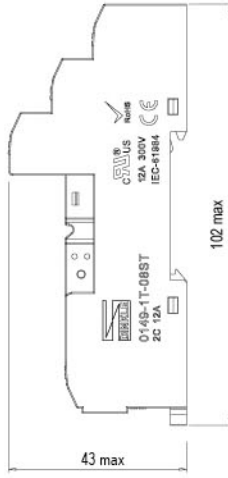
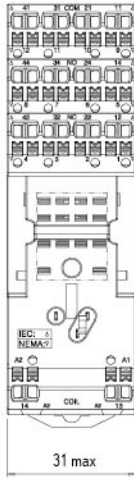
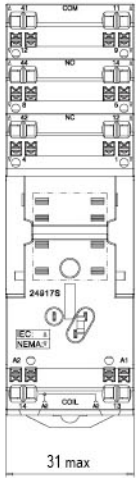


订货规格 / Part Number	0149-10-08A	0149-10-14A
额定负载电流 / Rated load current	10A	7A
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2000V/s	2000V/s
螺钉扭矩 / Screw torque	1.0Nm	1.0Nm
外连接导线 / External connection wire	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )
使用环境 / Ambient temperature	-40~+65℃	-40~+65℃
重量 / Weight	About 34g	About 52g
最小包装数 / Min. packing quantity	10pcs	10pcs
通用型号 / Mating part	RER-M2C / RER-S2C	RER-M4C / RER-S4C
配用附件表 / Accessories		
塑料固定夹 / Pastic retaining clip	-	-
金属固定夹 / Metal retaining clip	0149-11ES (@2pcs)	0149-11 (@2pcs)
电子元件 / Electronic components	-	-
导轨 / DIN rail	TS-35	TS-35



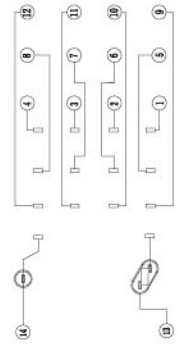
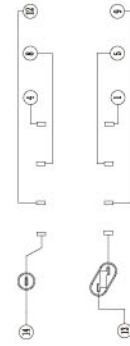
0149-1T-08ST

0149-1T-14ST



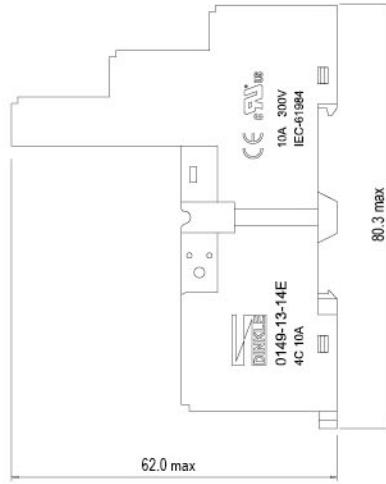
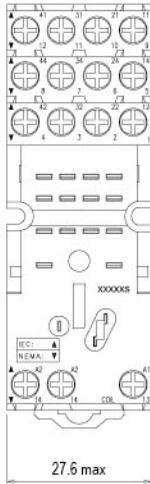
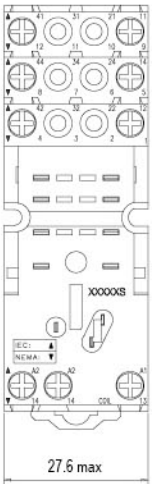
0149-1T-08ST

0149-1T-14ST



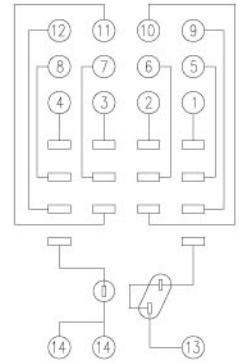
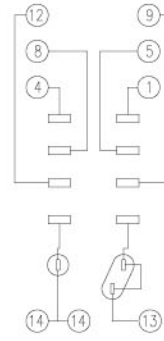
0149-13-08E

0149-13-14E



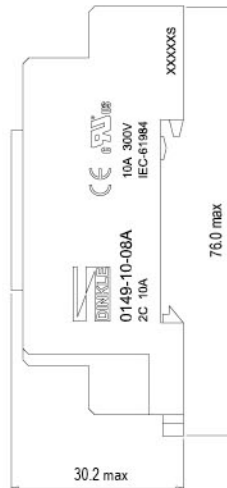
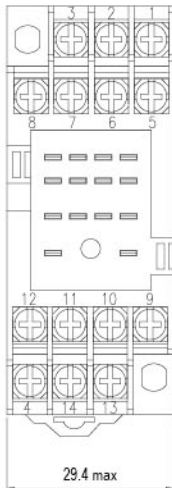
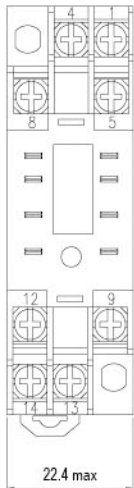
0149-13-08E

0149-13-14E



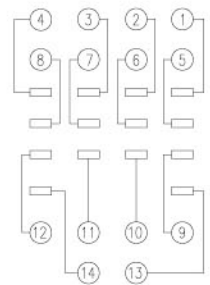
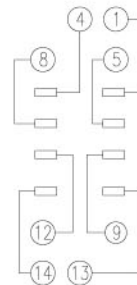
0149-10-08A

0149-10-14A



0149-10-08A

0149-10-14A





## RER-L2C-XXXX

① ② ③

- ① L = 产品规格 / Spec.  
 ② 2C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V



## 规格说明 / Specification

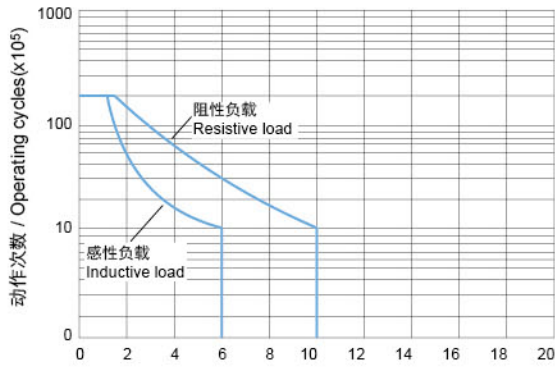
线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	36.9mA	9.2mA	5.5mA
线圈电阻 / Coil resistance	640Ω±10%	4430Ω±15%	16500Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	0.9W	1.2VA	1.2VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	2C		
阻性负载(AC-1) / Resistive load (AC-1)	10A/250VAC, 30VDC		
马达负载(AC-15) / Motor load (AC-15)	1/2HP, 240VAC		
切换功率(阻性) / Operating power (resistive)	2500VA, 300W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgSnO <sub>2</sub> 银氧化锡		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	2000VAC/1min		
触点与线圈间 / Between contact and coil	2000VAC/1min		
绝缘电阻 / Insulation resistance	≥500MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤20ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-25~+55°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>8</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 35g		

# 继电器底座及配件选型表 / Relay Base and Accessories

订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-L2C-XXXX	2C, 10A, 带指示灯 2C, 10A, with indicator	20	--
0149-20-08A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-L2C-XXXX
0149-21	金属固定夹 Metal retaining clip	20	0149-20-08A

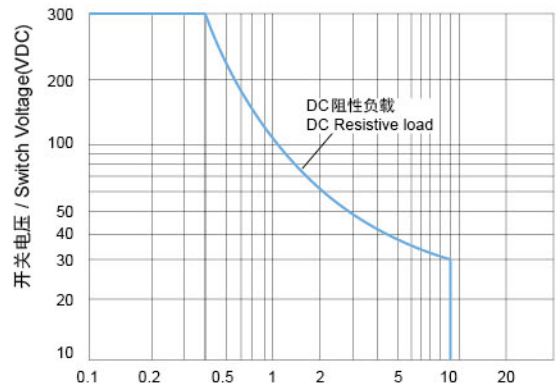
# 性能曲线图 / Performace Curve

电气寿命曲线 / Electrical Life Curve



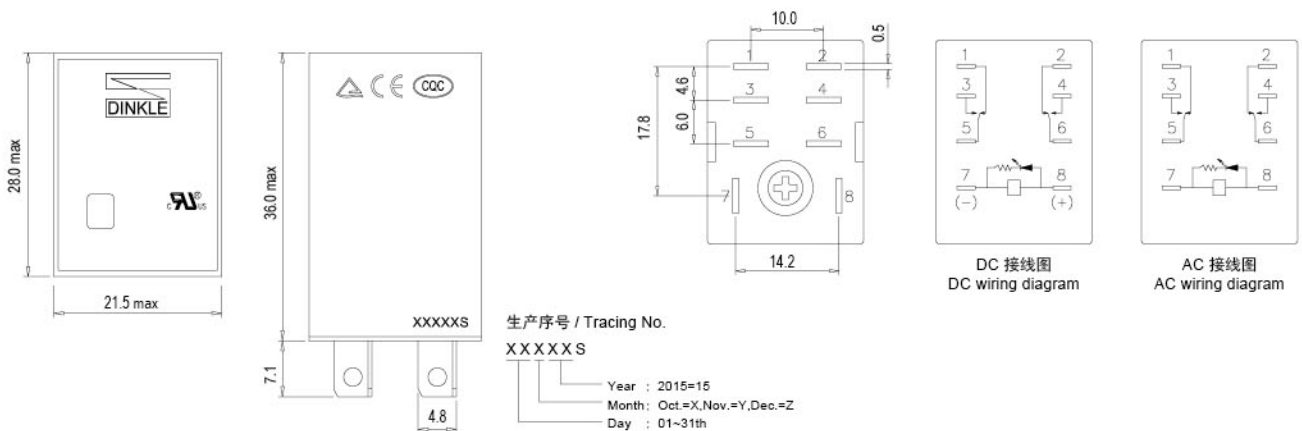
工作电流 Switching Current (A)

开关功率 / Switching Power



开关电流 Switch Current (A)

# 电气连接及尺寸图 / Electrical Connections and Dimensions



通用型继电器

# RER-L4C-XXXX

① ② ③

- ① L = 产品规格 / Spec.  
 ② 4C = 触点数 / No. of contacts  
 ③ XXXX = 电压规格 / Voltage  
     D24 = DC24V  
     A120 = AC120V  
     A230 = AC230V



## 规格说明 / Specification

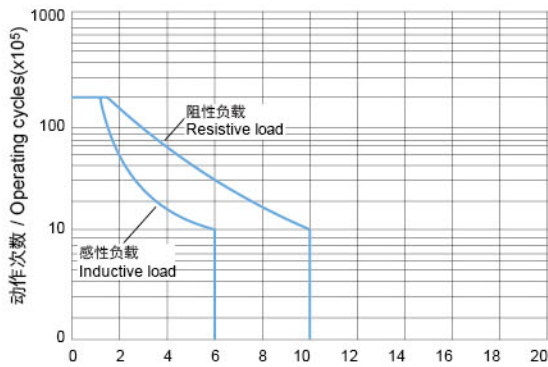
线圈特性 / Coil Characteristics			
额定电压 / Rated voltage	24VDC	120VAC	230VAC
额定电流 / Rated current	69mA	21.8mA	10.8mA
线圈电阻 / Coil resistance	360Ω±10%	1680Ω±15%	8000Ω±15%
吸合电压 / Pull-in voltage (at 23°C)	18V(≤Rated Voltage 75%)	96V(≤Rated voltage 80%)	184V(≤Rated voltage 80%)
释放电压 / Drop-out voltage (at 23°C)	2.4V(≥Rated Voltage 10%)	36V(≥Rated voltage 30%)	69V(≥Rated voltage 30%)
最大电压 / Max. Allowable voltage (at 23°C)	26.4V(Rated Voltage 110%)	132V(Rated voltage 110%)	253V(Rated voltage 110%)
线圈功率 / Coil power consumption	1.5W	2.5VA	2.5VA
LED工作指示 / LED Status display	Green	Red	Red
触点特性 / Contact Characteristics			
触点数 / No. of contacts	4C		
阻性负载(AC-1) / Resistive load (AC-1)	10A/250VAC, 30VDC		
马达负载 (AC-15) / Motor load (AC-15)	1/2HP, 240VAC		
切换功率(阻性) / Operating power (resistive)	2500VA, 300W		
最小容许负载 / Min. allowable load	10mA/17V		
触点材料 / Contact material	AgSnO <sub>2</sub> 银氧化锡		
接触电阻 / Contact resistance	≤50mΩ		
介质强度 / Dielectric Strength			
同极触点间 / Between adjacent contacts	1000VAC/1min		
异极触点间 / Between open contacts / between live parts and ground	2000VAC/1min		
触点与线圈间 / Between contact and coil	2000VAC/1min		
绝缘电阻 / Insulation resistance	≥500MΩ (500VDC)		
一般特性 / General Characteristics			
吸合时间(额定电压) / Operate time (rated voltage)	≤20ms		
释放时间(额定电压) / Release time (rated voltage)	≤20ms		
操作频率 / Operating frequency	18000 Ops/h		
环境温度 / Ambient temperature	-25~+55°C (Non-freezing condition)		
环境湿度 / Ambient humidity	35%~85%RH		
大气压力 / Atmospheric pressure	86~106KPa		
耐冲击 / Impact resistance	10G		
耐振动 / Vibration resistance	10~55Hz		
电气寿命(频率1s通,1s断) / Electrical life (frequency: on for 1s, off for 1s)	≥10 <sup>8</sup> 次 (1800 Ops/h)		
机械寿命(频率300次/1分钟) / Mechanical life (frequency: 300 cycles/1 min)	≥10 <sup>7</sup> 次 (18000 Ops/h)		
重量 / Weight per piece	About 65g		

## 继电器底座及配件选型表 / Relay Base and Accessories

订货规格 Part Number	产品描述 Product Description	包装数量 Number of Packages	适用规格 Specification
RER-L4C-XXXX	4C, 10A, 带指示灯 4C, 10A, with indicator	20	--
0149-20-14A	螺钉连接底座, DIN 导轨安装 Screw connection relay base, DIN rail mounting	10	RER-L4C-XXXX
0149-21	金属固定夹 Metal retaining clip	20	0149-20-14A

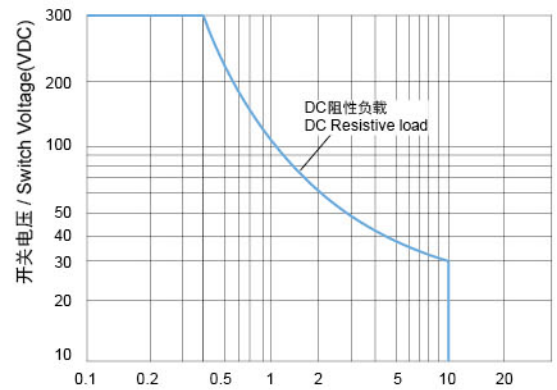
## 性能曲线图 / Performace Curve

电气寿命曲线 / Electrical Life Curve



工作电流 Switching Current (A)

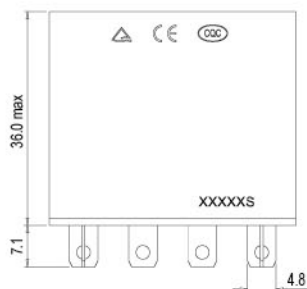
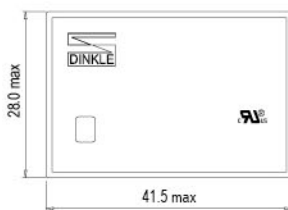
开关功率 / Switching Power



开关电流 Switch Current (A)

通用型继电器

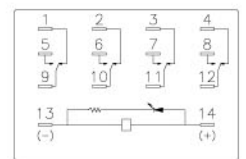
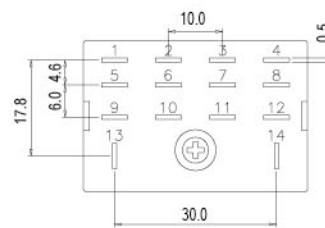
## 电气连接及尺寸图 / Electrical Connections and Dimensions



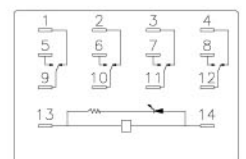
生产序号 / Tracing No.

XXXXXS

Year : 2015=15  
Month : Oct.=X, Nov.=Y, Dec.=Z  
Day : 01~31th



DC 接线图  
DC wiring diagram



AC 接线图  
AC wiring diagram

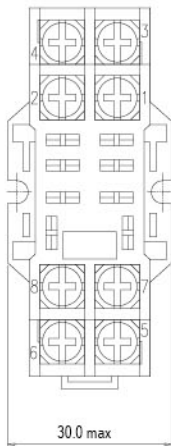


## 底座产品性能说明 / Specifications of Relay Base

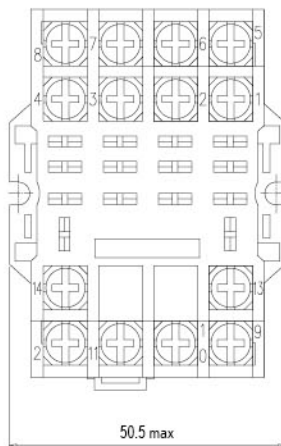


订货规格 / Part Number	0149-20-08A	0149-20-14A
额定负载电流 / Rated load current	10A	10A
额定负载电压 / Rated load voltage	300V	300V
绝缘耐压 / Insulation resistance	2000V/s	2000V/s
螺钉扭矩 / Screw torque	1.0Nm	1.0Nm
外连接导线 / External connection wire	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )	20-14 / 0.5-2.5 (AWG/mm <sup>2</sup> )
使用环境 / Ambient temperature	-40~+85 C	-40~+85 C
重量 / Weight	About 43g	About 76g
最小包装数 / Min. packing quantity	10pcs	10pcs
通用型号 / Mating part	RER-L2C	RER-L4C
配用附件表 / Accessories		
塑料固定夹 / Pastic retaining clip	-	-
金属固定夹 / Metal retaining clip	0149-21 (@2pcs)	0149-21 (@2pcs)
电子元件 / Electronic components	-	-
导轨 / DIN rail	TS-35	TS-35

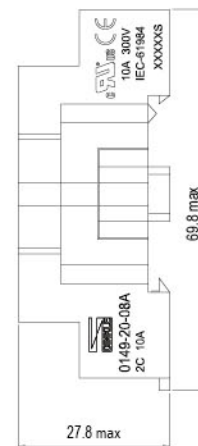
## 外形尺寸, 安装尺寸(mm) / Overall Dimensions, the Size of the Installation



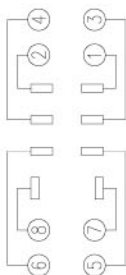
0149-20-08A



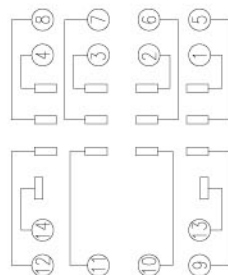
0149-20-14A



## 端子配置内部接线图 / Terminal Configuration and Internal Wiring Diagram



0149-20-08A



0149-20-14A

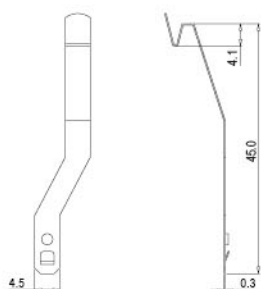
# Accessories

配件

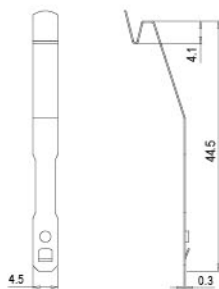


## 金属固定夹 / Metal Retaining Clip

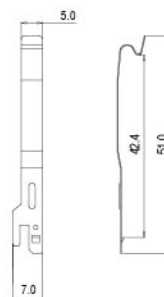
0149-11ES



0149-11



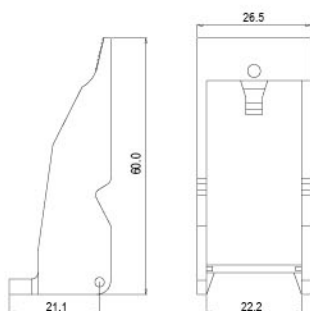
0149-21



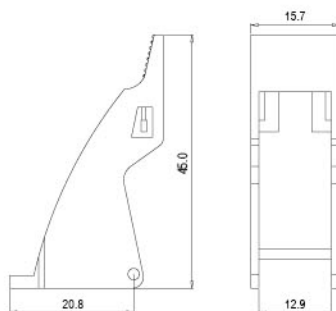
订货规格 / Part Number	通用规格 / Mating Part	最小包装数 / Min. Packing Quantity
0149-11ES	0149-10-08A	20
0149-11	0149-10-14A	20
0149-21	0149-20-08A、0149-20-14A	20

## 塑料固定夹 / Plastic Retaining Clip

0149-14



0149-32



订货规格 / Part Number	通用规格 / Mating Part	最小包装数 / Min. Packing Quantity
0149-14	0149-13-08E、0149-13-14E、0149-1T-08ST、0149-1T-14ST	5
0149-32	0149-33-05E、0149-33-08E、0149-3T-05ST、0149-3T-08ST	10

# 电子元件 / Electronic Components

0149-36



6~250VDC 电压峰值抑制元件



0149-35-24



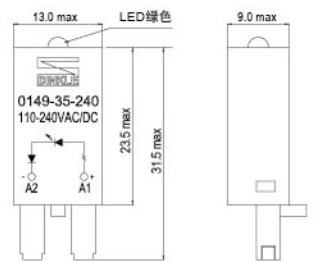
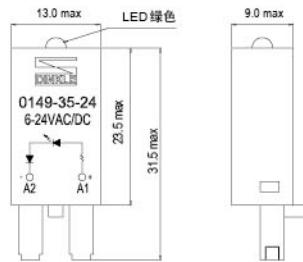
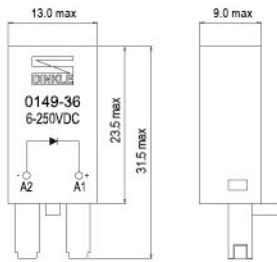
6~24VAC LED 工作指示元件



0149-35-240



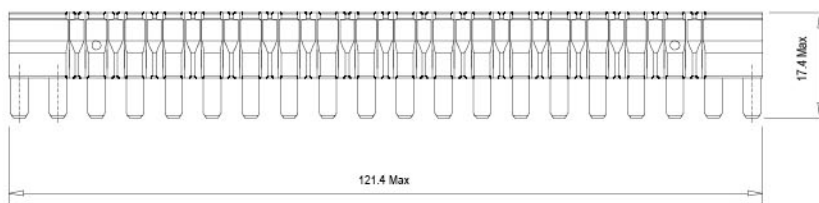
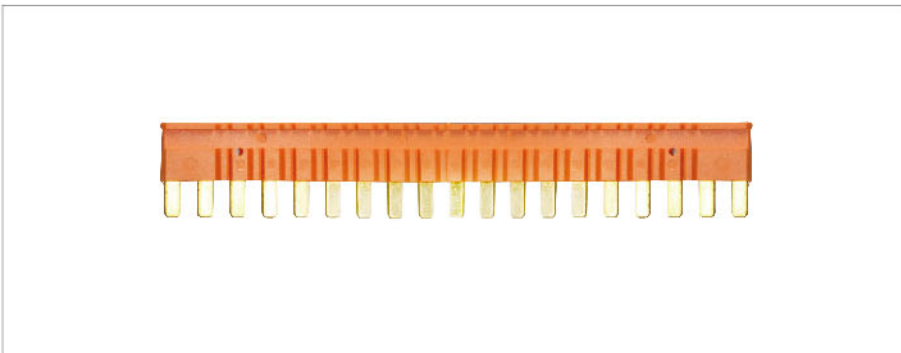
110~240VAC LED 工作指示元件



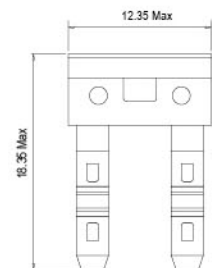
订货规格 / Part Number	通用规格 / Mating Part	最小包装数 / Min. Packing Quantity
0149-36	0149-13-08E、0149-13-14E、0149-33-05E、0149-33-08E、0149-1T-08ST、0149-1T-14ST、0149-3T-05ST、0149-3T-08ST	10
0149-35-24	0149-13-08E、0149-13-14E、0149-33-05E、0149-33-08E、0149-1T-08ST、0149-1T-14ST、0149-3T-05ST、0149-3T-08ST	10
0149-35-240	0149-13-08E、0149-13-14E、0149-33-05E、0149-33-08E、0149-1T-08ST、0149-1T-14ST、0149-3T-05ST、0149-3T-08ST	10

# 短路片 / Bridge

0149-4S-20



0149-3U-02



订货规格 / Part Number	通用规格 / Mating Part	最小包装数 / Min. Packing Quantity
0149-4S-20	RER-24-1A、RER-110-2B、RER-230-3B、RER-24-4A、RER-110-5B、RER-230-6B	10
0149-3U-02	0149-3T-05ST、0149-3T-08ST、0149-1T-08ST、0149-1T-14ST	10

其他配件



# Optical Relay

## 光继电器

光继电器，不同于传统电磁继电器的工作原理，采用光耦合技术和半导体开工技术设计，可广泛应用于高频开关控制场合，具有无火花、无振动磨损、稳定性好、寿命长、电磁干扰小等优点。

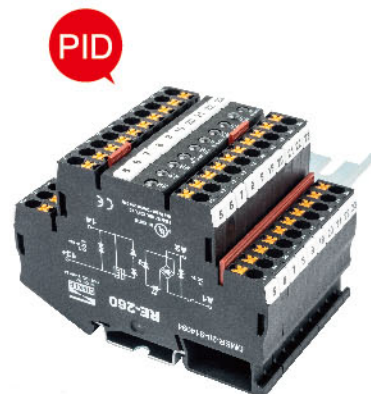
Different from a tradition electro-magnetic relay, optical relay is designed with optical coupler and semi-couductor control technology. The completely different working principle makes it working stably in high frequency switching without electrical park, no mechanical contact vibration and abrasion, good EMC advantage and long mission time.



### 产品概述 / Product Description

光继电器提供螺丝固定式及直插固定式 (PID) 等二种系列规格, 用以符合不同现场使用之需求。清楚的接点标示, 搭配 LED 灯指示功能, 标示区同时提供自由定义的标示片, 线路配置一目了然, 将提高现场配线之效率与便利性。

There are 2 sorts of optical relays with different options for wiring connection: screw or push-in-design(PID). Customers can correctly and easiley finish their wiring with a clear fixing seat for terminal mark lable design, LED indication and free marking chip. The new features are uesful to help the users to improve their work with high correctness, convience and efficiency.



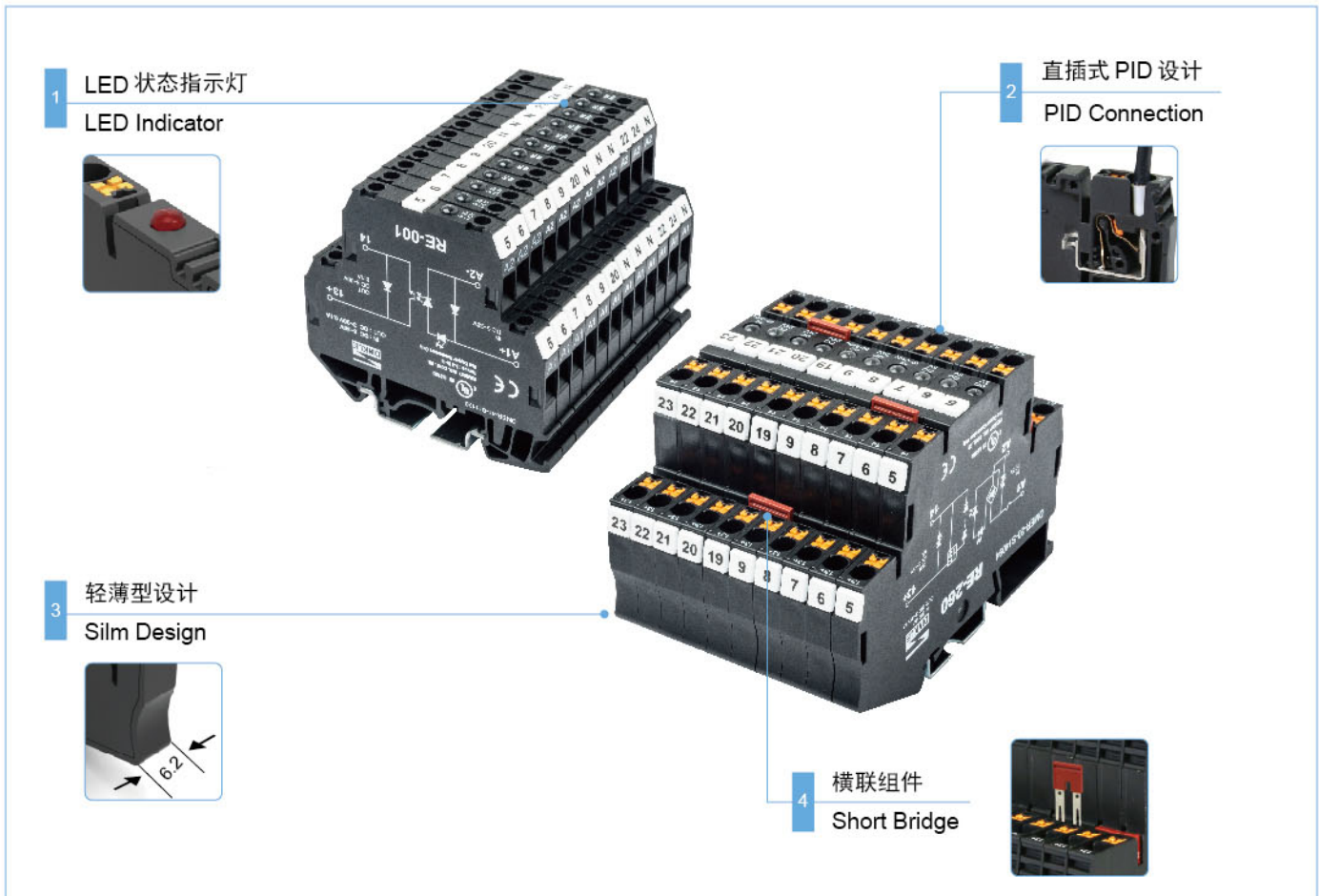
### 产品特点 / Product Features

- 相较于传统继电器, 本产品不会产生火花及电弧, 绝缘安全性更高  
No Electrical spark and arc during switching, superior insulation & safety compared to traditional relays
- 印字与标示牌引导使用者轻松辨识, 有助于提高接线正确性  
Printing & marking labels are clear and user-friendly, helpful to correctness of wiring connections correctly
- 相较于 PH 继电器模组, 温升幅度小产品更安全  
Low temperature raising ensures product safely vs. PH relay modules
- 切换频率提高 100 倍, 满足高精度需求  
100 times faster switching frequency for high frequency control
- LED 状态指示灯协助轻松辨识运作状态  
LED indicator shows the status of operation
- 输出 & 输入端皆能装配横联组件  
Short bridge can be used on both sides of input and output
- 符合 UL508 标准  
UL 508 approval
- 具更长的使用寿命及低故障率  
Longer life time and lower defective rate
- 比传统的继电器多 70% 使用空间  
Space savings of 70% vs. traditional relay modules



### 产品认证 / Product Certification





### 1 LED 状态指示灯 / LED Indicator

LED 状态指示灯能够显示操作状况，帮助使用者在昏暗环境中仍可清楚判读并辨识。

The LED indicator is able to show the status of the operation. It can easily be read and be noticed in a dark environment.

### 2 直插式 PID 设计 / PID Connection

直插式 PID 设计帮助进线时，不需搭配任何工具，可以直接插导线进行连接。采用高品质导电材料，使光继电器具备低连接电阻和高导电的优良性能。

The PID (Push-In Design) allows direct insertion of conductors without the need of any tools for a quick connection. High quality conduct materials are used in the Optical Relay for low connection resistance and high conducting performance.

### 3 标示牌 & 印字服务 / Marking Label & Printing

产品搭配标示牌及印字，更能有效提供清楚接线辨识，以确保光继电器安装在正确的位置，为配线组装达到良好的效率。

Marking labels and printing on the housing are available for identifying the wire connections. These are helpful to ensure the correct relay mounting position and efficient wiring.

### 4 横联组件 / Short Bridge

横联组件，品号 DSD05-6.2XX，是一个有效连接相邻接口位置进行轻易快速短接的配件。横联组件可容易置入光继电器的槽孔达到连接效果。置入后，不会影响光继电器壳体整体尺寸，也不阻碍接线组装。

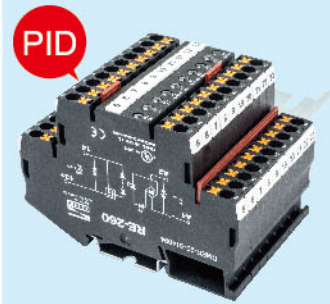
The bridge, part number DSD05-6.2XX, is a helpful accessory. It makes the connection of adjacent poles easier and facilitates the setup of the power distribution. The bridge can easily be inserted into the slot of the Optical Relay maintaining a flat surface on the housing. The inserted bridge doesn't affect the overall dimension of the relay housing too much and doesn't block the wiring entrance.

### 5 轻薄型设计 / Slim Design

町洋光继电器搭配轻薄型 6.2mm 壳体。相较于传统的继电器，有效节省 70% 空间，有助于高密度配线应用。

The DINKLE Optical Relay has a slim 6.2mm design thickness. Compared to a traditional relay, it saves 70% in space. It is advantageous for high-density wiring applications.





光继电器采用直插式PID弹片结构,节约布线时间;只需按压橘色按钮即能轻松退线。标示牌及壳体印字提供使用者明确指示,有效减少装配错误。

町洋光继电器使用结构紧凑设计,厚度仅6.2mm;双层接线设计,支援讯号传输、隔离、调整或放大。

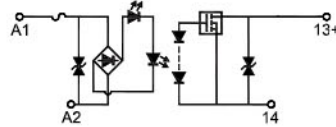
The optical relay with PID(Push-in) structure, it is helpful wiring time and just by pressing the orange button to release the wire easily. Clear printing label is useful to avoid installation errors by mistake.

The optical relay has a compact housing with only 6.2mm thickness and a 2-layer wiring connection. - constructure, which is widely used for electrical signal transition, isolation, change or amplification.

RE 系列



RE-2604



安规认证/Safety approvals CE

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	5 VDC
额定输入电流 Rated input current	10~15 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	10~200 Hz*
输入端极性 Input polarity	双极
阈值电压 Gate voltage ON/OFF	4.7 / 3.3 VDC

输出(负载端)参数 / Output (Load side) data

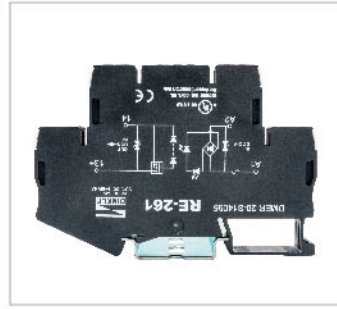
额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	6 A
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	<0.1 V
泄漏电流 Leakage current	≅ 0 A

常规参数 / General data

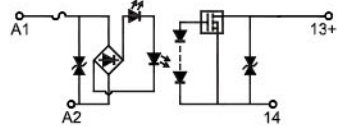
接线方式 Connection method	直插式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~14 / 0.2~1.5
冲击耐压 Impulse withstand voltage	2.5KV
扭力(N-m) Torque	-
厚x宽(mm) TxH(mm)	6.2x91
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	63.2 / 70.7
最小包装数(盒) Min. packing quantity	10pcs

配件 / Accessories 型号 / Cat.No.

终端隔板 / End-Closer	-
侧联组件 / Side Jumper	-
标示牌 / Marking Label	TM43W
适用轨道 / Applicable Rail	TS-35N / TS-35/15N
工具 / Tool	0.6x3.0mm



RE-2614



安规认证/Safety approvals CE

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	24 VDC
额定输入电流 Rated input current	10~15 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	10~200 Hz*
输入端极性 Input polarity	双极
阈值电压 Gate voltage ON/OFF	22 / 18 VDC

输出(负载端)参数 / Output (Load side) data

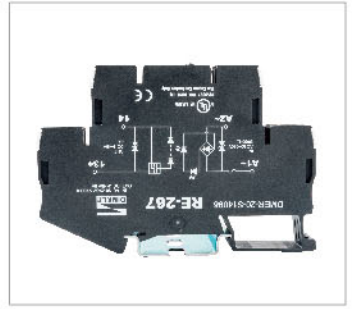
额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	6 A
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	<0.1 V
泄漏电流 Leakage current	≅ 0 A

常规参数 / General data

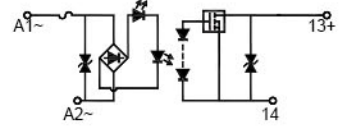
接线方式 Connection method	直插式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~14 / 0.2~1.5
冲击耐压 Impulse withstand voltage	2.5KV
扭力(N-m) Torque	-
厚x宽(mm) TxH(mm)	6.2x91
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	63.2 / 70.7
最小包装数(盒) Min. packing quantity	10pcs

配件 / Accessories 型号 / Cat.No.

终端隔板 / End-Closer	-
侧联组件 / Side Jumper	-
标示牌 / Marking Label	TM43W
适用轨道 / Applicable Rail	TS-35N / TS-35/15N
工具 / Tool	0.6x3.0mm



RE-2674



安规认证/Safety approvals CE

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	90-265 VAC
额定输入电流 Rated input current	10 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	60 Hz
输入端极性 Input polarity	双极
阈值电压 Gate voltage ON/OFF	50 / 50 VAC

输出(负载端)参数 / Output (Load side) data

额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	6 A
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	<0.1 V
泄漏电流 Leakage current	≅ 0 A

常规参数 / General data

接线方式 Connection method	直插式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~14 / 0.2~1.5
冲击耐压 Impulse withstand voltage	2.5KV
扭力(N-m) Torque	-
厚x宽(mm) TxH(mm)	6.2x91
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	63.2 / 70.7
最小包装数(盒) Min. packing quantity	10pcs

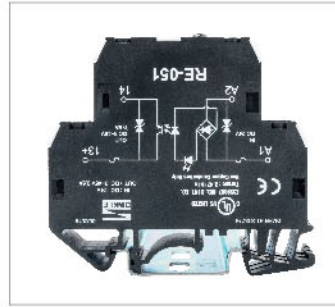
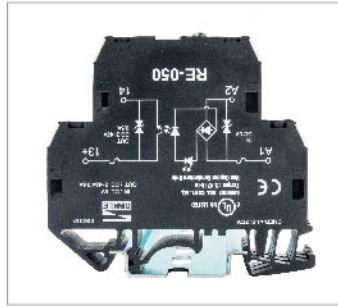
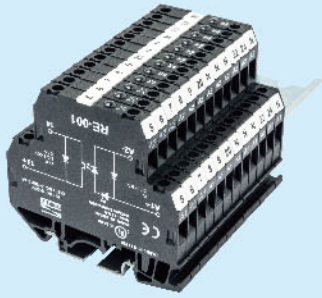
配件 / Accessories 型号 / Cat.No.

终端隔板 / End-Closer	-
侧联组件 / Side Jumper	-
标示牌 / Marking Label	TM43W
适用轨道 / Applicable Rail	TS-35N / TS-35/15N
工具 / Tool	0.6x3.0mm

\*10Hz-8A 满载



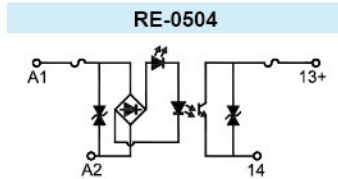
# 光继电器 (螺丝型) / Optical Relay (Screw)



轻薄型光继电器厚度仅 6.1mm, 适用于空间有限的控制配盘。传统螺丝式夹线结构提供安全紧固的电线连接且无需维护, 是最有效率的配线方式。町洋光继电器规格包含最高 10kHz 最大开关频率, 适用于各种工业等级接口应用。

The slim optical relay has a thickness of 6.1mm, it is perfect for space restricted control cabinet. The traditional screw connection offers the secure wire connection and no maintenance, it is the most cost effective method of wiring solution. The optical relay has a quick max. switching frequency at 10kHz which is suitable for many industrial and interface applications.

## RE 系列



安规认证/Safety approvals 安规认证/Safety approvals

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	5 VDC
额定输入电流 Rated input current	15~18 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	1 kHz
输入端极性 Input polarity	双极
阈值电压 Gate voltage ON/OFF	4.7/4.2 VDC

输出(负载端)参数 / Output (Load side) data

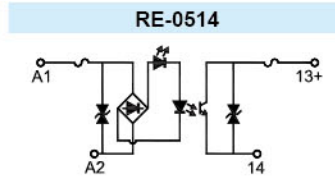
额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	500 mA
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	≒ 1V
泄漏电流 Leakage current	≒ 0 A

常规参数 / General data

接线方式 Connection method	螺丝式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~12 / 0.2~2.5
冲击耐压 Impulse withstand voltage	2.5 KV
扭力 (N-m) Torque	0.4 / 3.47
厚x宽(mm) TxH(mm)	6.1x67.85
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	61.5x69.0
最小包装数(盒) Min. packing quantity	10 pcs

配件 / Accessories

型号 / Cat.No.	DMERC-BK
	CSC-402PN
	CSC-410PN
	TM43W
适用轨道 / Applicable Rail	TS-35N / TS-35/15N
工具 / Tool	0.5x3.0mm



安规认证/Safety approvals 安规认证/Safety approvals

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	24 VDC
额定输入电流 Rated input current	12~14 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	1 kHz
输入端极性 Input polarity	双极
阈值电压 Gate voltage ON/OFF	21.5/19.5 VDC

输出(负载端)参数 / Output (Load side) data

额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	500 mA
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	≒ 1V
泄漏电流 Leakage current	≒ 0 A

常规参数 / General data

接线方式 Connection method	螺丝式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~12 / 0.2~2.5
冲击耐压 Impulse withstand voltage	2.5 KV
扭力 (N-m) Torque	0.4 / 3.47
厚x宽(mm) TxH(mm)	6.1x67.85
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	61.5x69.0
最小包装数(盒) Min. packing quantity	10 pcs

配件 / Accessories

型号 / Cat.No.	DMERC-BK
	CSC-402PN
	CSC-410PN
	TM43W
适用轨道 / Applicable Rail	TS-35N / TS-35/15N
工具 / Tool	0.5x3.0mm

终端隔板 / End-Closer



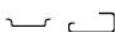
侧联组件 / Side Jumper



标示牌 / Marking Label



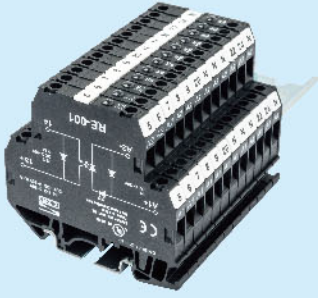
适用轨道 / Applicable Rail



工具 / Tool



# 光继电器 (螺丝型) / Optical Relay (Screw)



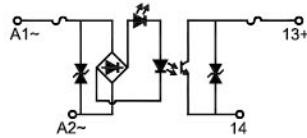
轻薄型光继电器厚度仅 6.1mm, 适用于空间有限的控制配盘。传统螺丝式夹线结构提供安全紧固的电线连接且无需维护, 是最有效率的配线方式。町洋光继电器规格包含最高 10kHz 最大开关频率, 适用于各种工业等级接口应用。

The slim optical relay has a thickness of 6.1mm, it is perfect for space restricted control cabinet. The traditional screw connection offers the secure wire connecting and no maintenance, it is the most cost effective method of wiring solution. The optical relay has a quick max. switching frequency at 10kHz which is suitable for many industrial and interface applications.

## RE 系列



RE-0554



安规认证/Safety approvals 安规认证/Safety approvals

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	95~125 VAC
额定输入电流 Rated input current	0.6~1.3 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	60 Hz
输入端极性 Input polarity	双极
阀值电压 Gate voltage ON/OFF	50 / 50 VAC

输出(负载端)参数 / Output (Load side) data

额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	500mA
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	<1.5 V
泄漏电流 Leakage current	≒ 0 A

常规参数 / General data

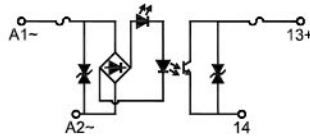
接线方式 Connection method	螺丝式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~12 / 0.2~2.5
冲击耐压 Impulse withstand voltage	2.5KV
扭力(N·m) Torque	0.4 / 3.47
厚x宽(mm) TxH(mm)	6.1x67.85
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	61.5 / 69.0
最小包装数(盒) Min. packing quantity	10pcs

配件 / Accessories

型号 / Cat.No.	DMERC-BK
	CSC-402PN
	⋮
	CSC-410PN
	TM43W
	TS-35N / TS-35/15N
	0.5x3.0mm



RE-0564



安规认证/Safety approvals 安规认证/Safety approvals

输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	200~240 VAC
额定输入电流 Rated input current	0.6~1.1 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	60 Hz
输入端极性 Input polarity	双极
阀值电压 Gate voltage ON/OFF	130 / 130 VAC

输出(负载端)参数 / Output (Load side) data

额定输出电压 Rated switching voltage	3~48 VDC
额定输出电流 Rated switching current	500mA
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	<1.5 V
泄漏电流 Leakage current	≒ 0 A

常规参数 / General data

接线方式 Connection method	螺丝式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~12 / 0.2~2.5
冲击耐压 Impulse withstand voltage	2.5KV
扭力(N·m) Torque	0.4 / 3.47
厚x宽(mm) TxH(mm)	6.1x67.85
高(TS-35N TS-35/15N)(mm) H(TS-35N TS-35/15N)(mm)	61.5 / 69.0
最小包装数(盒) Min. packing quantity	10pcs

配件 / Accessories

型号 / Cat.No.	DMERC-BK
	CSC-402PN
	⋮
	CSC-410PN
	TM43W
	TS-35N / TS-35/15N
	0.5x3.0mm

终端隔板 / End-Closer



侧联组件 / Side Jumper



标示牌 / Marking Label

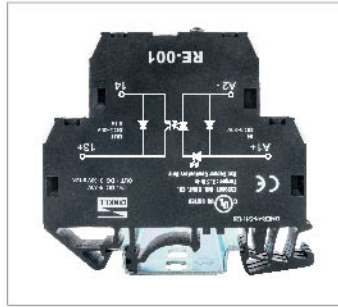
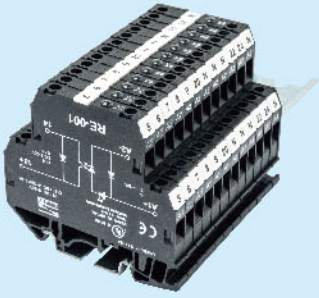


适用轨道 / Applicable Rail



工具 / Tool





光耦端子可对控制层单元与传感或执行层单元之连接，进行有效可靠之隔离。

光耦端子能提供必要的安全接口，并具有如下功能特点：

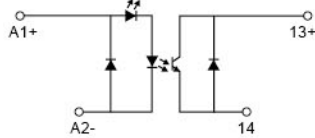
Optical Coupler can provide efficient and reliable isolation between sensing unit of control layer and connection unit of execution layer.

Optical Coupler offers the needed safety interface and features the below functions:

- 控制端信号功率小 - Small-power signal on control side
- 切换频率高 - High switching frequency
- 无触点抖动 - No contact jitter
- 无磨损切换 - No abrasion switching
- 切换寿命长 - Long switching life
- 占用空间小 - Small size
- 无振动影响 - No Vibration
- 高绝缘电压 - High Isolation Voltage

## RE 系列

### RE-0014



安规认证/Safety approvals

#### 输入(控制端)参数 / Input (Control side) data

额定输入电压 Rated input voltage	5~30 VDC
额定输入电流 Rated input current	6 mA
状态指示灯 Status indicator	(Red)LED
最大开关频率 Maxi. switching frequency	10 kHz
输入端极性 Input polarity	单极
阈值电压 Gate voltage ON/OFF	3.2 / 3.2 VDC (LED off at 2.5 VDC)

#### 输出(负载端)参数 / Output (Load side) data

额定输出电压 Rated switching voltage	3~30 VDC
额定输出电流 Rated switching current	100 mA
输出类型 Output type	NPN / PNP
导通压降 Voltage conduction	<1V
泄漏电流 Leakage current	≅ 0 A

#### 常规参数 / General data

接线方式 Connection method	螺丝式
适用线径 Wire(AWG)/(mm <sup>2</sup> )	24~12 / 0.2~2.5
冲击耐压 Impulse withstand voltage	2.5 KV
扭力 (N·m) Torque	0.6 / 5.3
厚×宽 (mm) TxH(mm)	6.1x67.85
高(TS-35N/TS-35/15N)(mm) H(TS-35N/TS-35/15N)(mm)	61.5 / 69.0
最小包装数(盒) Min. packing quantity	10 pcs

#### 配件 / Accessories

终端隔板 / End-Closer	DMERC-BK
侧联组件 / Side Jumper	2 way : CSC-402PN ... 10 way : CSC-410PN
标示牌 / Marking Label	TM43W
适用轨道 / Applicable Rail	TS-35N / TS-35/15N
工具 / Tool	0.5x3.0mm

\*产品带终端隔板

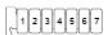
终端隔板 / End-Closer



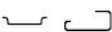
侧联组件 / Side Jumper



标示牌 / Marking Label



适用轨道 / Applicable Rail



工具 / Tool





## 触点参数说明

### 触点类型

名称	符号	标示	代号
常开触点		NO	A
常闭触点		NC	B
转换触点		CO	C

### 接触电阻

接触电阻是指触点间的电阻和触点相连的簧片及其引出端与组成电路的导体电阻之和。单位为欧姆。

触点的电阻取决于触点材料规格，使用合适的触点材料能降低触点温度，因而延长触点工作寿命。

### 触点负载

指在一定的条件下，触点能可靠作用切换的负载值，一般以电压和电流的组合标示。除特殊说明外，技术参数中所列的负载一般为阻性负载。

例：样本所示 5A 230VAC / 30VDC，指的是在阻性负载情况下触点的最大额定负载电流为 5A，电压不超过 230 VAC 或 30 VDC。

### 触点材料

由于继电器被使用在不同的工业领域中，因此有必要选择适合的材料来满足各种应用上的需求。工作电压与工作电流做为决定触点材料的适用性时，起着重要的作用。

其他影响因素包括：接触电阻，耐烧损，材料蠕变，粘黏倾向及化学影响等。

### 触点材质说明

触点材料	材料特性	典型运用	参数范围
银镍合金 AgNi	为继电器触点选用之标准材料 导电与导热率良好 耐烧损性十分优异 粘黏倾向低	适用于中到高负载；直流电路或感性负载	额定电流小于 12A，一般冲击电流小于 30A
银氧化锡 AgSnO <sub>2</sub>	开关大电流时耐烧损特性好 于直流负载下材料抗转移性能好	适用于开关大交流负载，也适合感性负载	额定电流小于 30A，一般冲击电流小于 50A
银镍合金 + 硬镀金 AgNi + Au	较低的最小导通电流 导电率、导热率好 一般的抗粘连能力 不易形成氧化层	灯负载：感性负载和部份容性负载	很高冲击电流，最大 120A
		控制负载：传感器负载	最小导通电流小于 5mA

## 线圈参数说明

### 释放电压 (最大脱扣电压)

释放电压指当继电器去除励磁时，使继电器触点正常转换并保持在应有的指定位置，且不产生任何的动作现象。

### 吸合电压 (最小工作电压)

吸合电压是指继电器可以安全吸合的最小工作电压，使继电器的触点正常转换，并保持在应有的位置。

### 线圈阻抗及特性

线圈的阻抗可以用电阻表测得，阻值是在安规标准的 23°C 测得。误差范围为 +10%。对于交流线圈而言，由于自感应原因，线圈电流和阻值会不匹配。在 230V 时，自感应系数会达到 90H。当线圈断开时，自感应带来的感应电压会影响开关源。

### 保护线路说明

保护类型	示意图	适用线圈	响应时间	适用场合	参数范围
二极管保护		直流线圈	4 倍释放时间	用于阻尼在继电器释放时产生的瞬态能量 (感应断路电压)	保护等级 III (2000V) 至高至 60VDC 保护等级 IV (4000V) 61 至 250VDC
二极管 + LED		直流线圈	4 倍释放时间	用于阻尼在继电器释放时产生的瞬态能量 (感应断路电压)	保护等级 III (2000V) 至高至 60VDC 保护等级 IV (4000V) 61 至 250VDC
阻容吸收		交流线圈	-	针对交流线圈的抑制栅	保护等级 III (2000V)
整流桥		交流线圈	3 倍释放时间	针对交流线圈，使用整流桥后可以不分交直流使用。最高电压至 250V	保护等级 II (1000V) 至高至 24V 保护等级 III (2000V) 25 至 60V 保护等级 IV (1000V) 61 至 250V





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