

# MerCs Brand Plug-In Relays and DIN Mount Bases to Suit



## Data Sheet

### Features

- Plug-In Relay with rotatable flag to switch state of relay and lock contact position.
- 2 or 4 C/O contacts
- 3 type of DIN mount base 35mm (EN 60715)
- Various control voltages
- AC & DC coils
- Supplied with rotatable mechanical flag & LED indicator

### Applications

- Electrical Switchboards
- HVAC
- Building automation

### Description

Plug In relays are used to control small loads and contactors.

They are also useful where a control circuit needs to switch an alternate voltage - say a 24VDC control circuit switching a 240Vac small load lighting circuit or Contactor.

Being a plug-in device it can be replaced quickly and simply when required.

### Part Numbers

PIR-024VAC-2CO	Plug-in industrial relay, 24VAC, 2 C/O, 12A, test key, status LED
PIR-024VAC-4CO	Plug-In 14PIN 5A Relay, 24VAC 4 C/O, 5A, test key, status LED
PIR-024VDC-2CO	Plug-in industrial relay, 24VDC, 2 C/O, 12A, test key, status LED
PIR-024VDC-4CO	Plug-In 14PIN 5A Relay, 24VDC 4 C/O, 5A, test key, status LED
PIR-048VDC-2CO	Plug-in industrial relay, 48VDC, 2 PDTs, 2 x 12A, test key, status LED
PIR-048VDC-4CO	Plug-In 14PIN 5A Relay, 48VDC 4 C/O, 5A, test key, status LED
PIR-110VAC-2CO	Plug-in industrial relay, 110VAC, 2 PDTs, 2 x 12A, test key, status LED
PIR-110VAC-4CO	Plug-In 14PIN 5A Relay, 110VAC 4 C/O, 5A, test key, status LED
PIR-240VAC-2CO	Plug-in industrial relay, 240VAC, 2 PDTs, 2 x 12A, test key, status LED
PIR-240VAC-4CO	Plug-In 14PIN 5A Relay, 240VAC 4 C/O, 5A, test key, status LED
PIRB-14P-SP	Plug-In Relay Base 14Pin, Special
PIRB-14PIN	Plug-In Relay Base 14PIN
PIRB-8PIN	Plug-In Relay Base to suit 8 Pin Relays

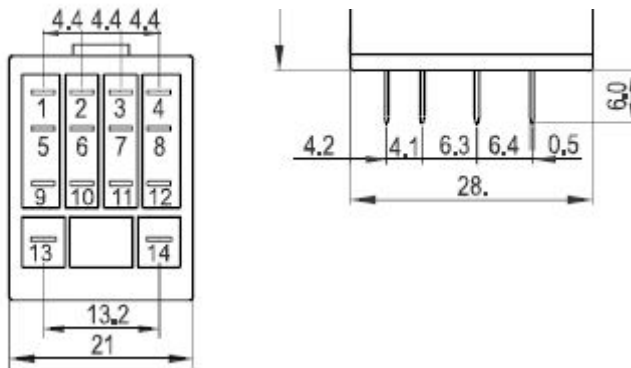
## Technical Data

Dimensions of relay	27.3 x 21 x 36.2 mm
2Pole 12Amp Switching load	Rated Load 12A/240Vac 28Vdc
4Pole 5A switching load	Rated Load 5A/240Vac 28Vdc
Power consumption	DC 0.9W, AC 1.2VA
Operational Electrical Life	≥ 10 <sup>5</sup> operations
Mechanical Life	≥ 10 <sup>7</sup> operations
Contact resistance	≤ 100mΩ
Material	Silver Alloy
Max switching voltage	40VAC/28VDC
Operate voltage (@23°C)	DC: ≤ 75% * Rated voltage AC: ≤ 80% * Rated voltage
Release voltage (@23°C)	DC: ≥ 10% * Rated voltage AC: ≥ 30% * Rated voltage
Maximum voltage (23°C)	110% * Rated voltage
Pick-up time	≤ 15ms
Release time	≤ 10ms
Dielectric strength	Between Same-pole contacts 1000VAC/1min(leakage current 1mA) Between Opposite-pole contacts 1500VAC/1min(leakage current 1mA) Between contacts and coil 1500VAC/1min(leakage current 1mA)
Insulation resistance	≥ 100mΩ(500VDC)
Ambient temperature	-25°C~55°C
Ambient humidity	75%RH
Atmospheric Pressure	86-106kPA
Shock resistance	10G (sinusoidal half-wave pulse: 11ms)
Vibration resistance	10-55Hz (double amplitude: 1.5mm)
Installation	Socket with DIN Rail

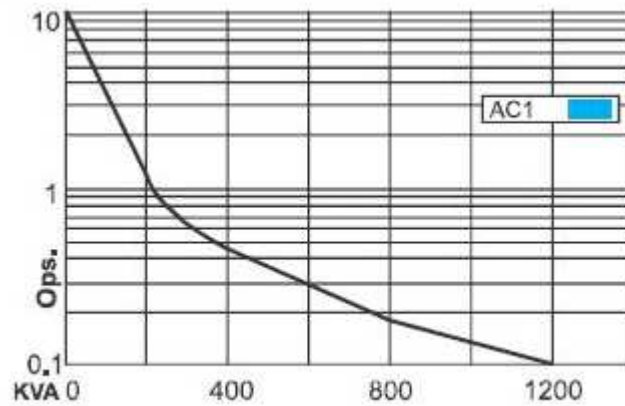
## Dimensions

Body	27.3 x 21 x 36.2 mm	
Base	PIRB-14P-SP	80 x 61.5 x 27.4mm
	PIRB-14PIN	76.5 x 43 x 27.5 mm
	PIRB-8PIN	83 x 30 x 24.1 mm

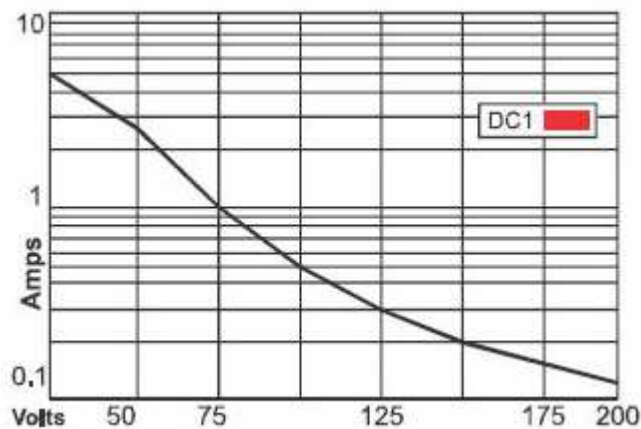
14 Pin base configuration



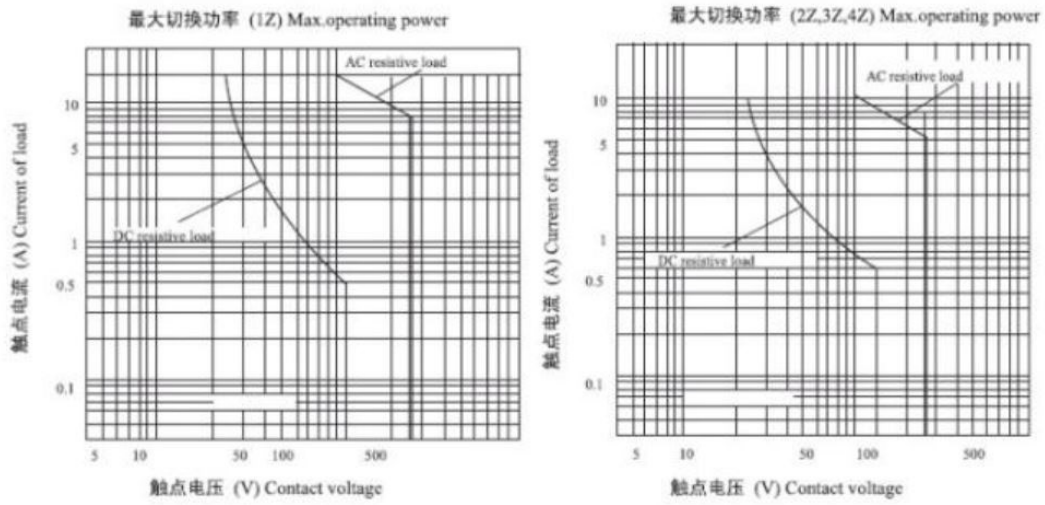
Graph 1 : Electrical Life operations x 10<sup>6</sup>



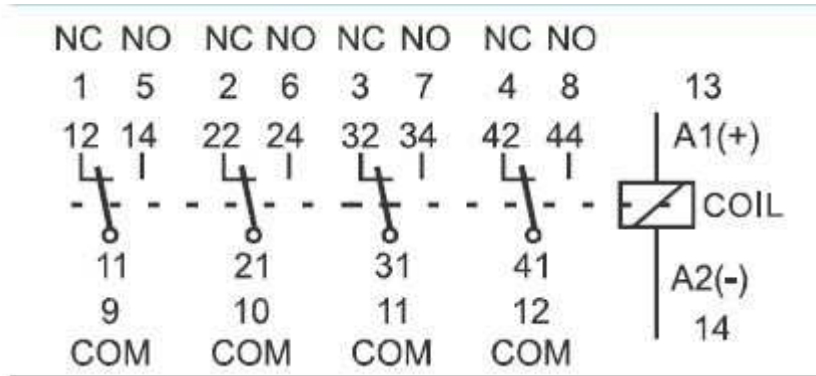
Graph 2: 4 Pin 5 Amp Max. DC Load



Graph 3 : Performance 10A 2Pole



Switching (14 Pin electrical configuration)



8 Pin configuration

Base Configuration ( 8 Pin)

Switching (8 Pin electrical configuration)

