

# P3-Y.....M



## Magnetic Blow Out 1 NO Double Break

**10 A 250V AC1 10 A 220V DC1**  
**10 A 30V DC1 7 A 220V DC13**

### Contacts

Materials : Standard AgNi  
Optional 1 AgNi + Au 0.2 μ  
Optional 2 AgNi + Au 5.0 μ

Max. Switching Current 10A  
Max. Peak Inrush Current (20 ms) 30A  
Max. Switching Voltage 250 VAC  
Switching Power range 0.3 VA (W) to 2500 VAZ  
Max. Contact Resistance 20m Ω  
Max. AC Load (Table 1) 2.5 KVA

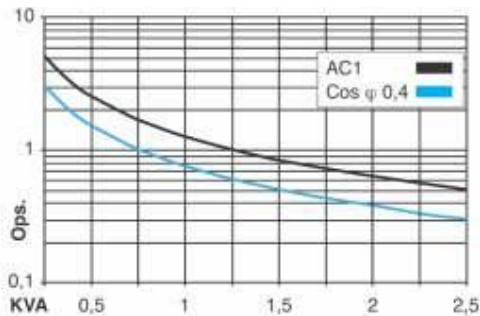
### Coils (Ohms ± @ 20°C)

Pull-in Voltage ≤ 0.8 x Un  
Drop-out Voltage ≥ 0.1 x Un

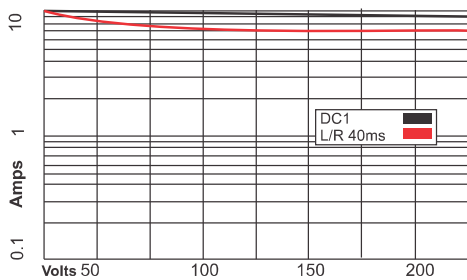
Nominal Coil Power 1.6 VA (AC / 1.3 W (DC))

VAC	Ohms	VDC	Ohms
6	3.15	6	33
12	13.3	12	115
24	52	24	480
48	240	48	1850
110	1120	110	9000
230	5600	220	29000

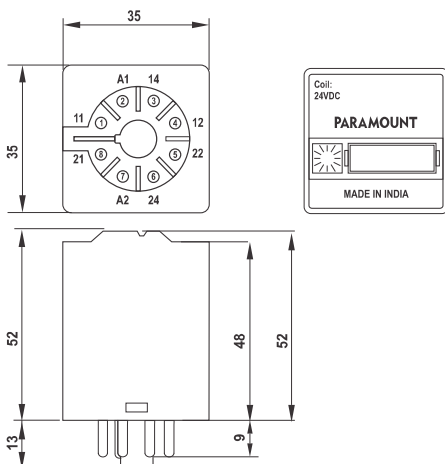
**Graph 1** Electrical life, ops x 10<sup>6</sup>



**Graph 2** Max. DC load



### Dimensions in mm.



### Insulation

Dielectric Strength (1 minute) : open contacts 1500 VAC  
Between adjacent poles 2000 VAC  
Between contacts and coil 2500 VAC  
Insulation Resistance @ 500VDC Min. 200 MΩ  
Isolation, IEC 61810-5 2.5 KV / 3

### Specifications

Operate / Release & Bounce Time Max. for DC 15+3 ms  
Operate / Release & Bounce Time Max. for AC 16+8 ms  
Mechanical Life ops. 10 Million AC, 20 Million DC relays  
Electrical life at Nominal load ≥ 100,000 ops.  
Operating Frequency at nominal load 1200 / hour  
Shock Resistance AK : > 10g  
Vibration Resistance 5g 10.....150 Hz  
Mounting Direction any  
Storage -40°C to +85°C  
Ambient Operating Temperature -40°C to +55°C (for AC relay)  
Ambient Operating Temperature -40°C to +70°C (for DC relay)  
Protection Standard IP 40  
Weight app. 80 g

### Standard Types

**AC : 6, 12, 24, 48, 110, 230**

**M** = Magnetic Blow Out

**P** = LED Indicator

**R** = RC Circuit

**P3-Y-PM** .... VAC

**P3-Y-PRM** .... VAC

**DC : 6, 12, 24, 48, 110, 220**

**P** = LED

**W** = Free Wheeling Diode

**Z** = Polarity & Free Wheeling Diode

**B** = AC/DC Bridge Rectifier

**P3-Y-PM** .... VDC

**P3-Y-PWM** .... VDC

**P3-Y-PZM** .... VDC

**P3-Y-PBM** .... VAD

Suitable Sockets : S8D-YA, S8LD-YA

### Approvals

