

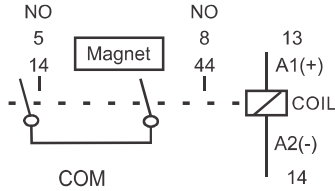


# P12-Y-M



**DC Switching Relay, 1NO Double Break**  
**10 A 250V AC1                      6 A 220V DC1**  
**10 A 30V DC1                        2 A 220V DC13**

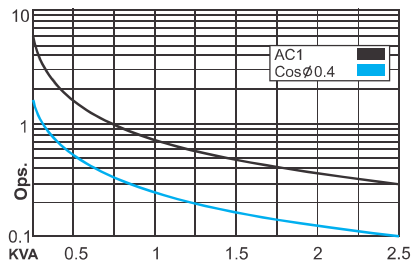
## Pin configuration



## Contacts

Materials: Standard AgNi  
 Max. switching current 10 A  
 Max. Peak inrush current (20 ms.) 30 A  
 Max. Switching voltage 250 V  
 Max. AC load (Table 1) 2.5 KVA  
 Max. DC load (Table 1) Graph 2

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

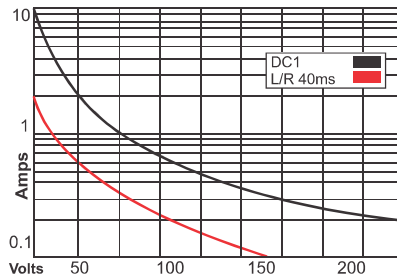


## Coils (Ohms ± 10% @ 20°C)

Pull-in voltage ≤ 0.8 x Un  
 Drop-out voltage ≥ 0.1 x Un  
 Nominal Coil Power 1.2 VA (AC) / 1.W (DC)

VAC	Ω	VDC	Ω
6	12	6	40
12	50	12	160
24	190	24	640
48	785	48	2600
110	3880	110	13600
230	17400	220	54000

**Graph 2** Max. DC load



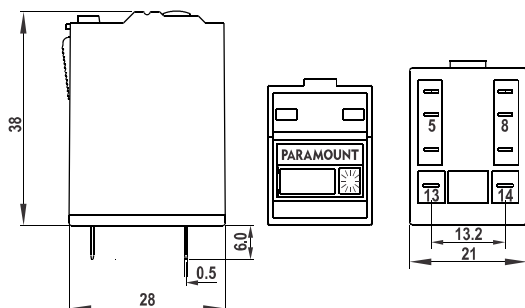
## Insulation

Dielectric strength (1 minute): Open contacts 2.5 KV  
 Between adjacent poles 2.5KV  
 Between Contacts & Coil >3GΩ  
 Insulation resistance at 500V >3GΩ  
 Isolation, IEC 61810-5: 2.5KV / 3

## Specifications

Operate Time + Bounce Time 16 ms.  
 Release Time + Bounce Time 8 ms.  
 Ambient Temperature -40°C (no ice)... +70°C  
 Mechanical life ops. 10 Million AC, 20 Million DC relays  
 Electrical life at nominal load > 100,000 ops.  
 Operating frequency at nominal load 1,200 / hour  
 Protection degree IP40 / RT1  
 Weight avg. 43 grs.

## Dimensions in mm.



## Standard Types

AC : 50Hz 6, 12, 24, 48, 115, (120), 230, (240)

F = Mechanical Blow Out  
 P = LED Indicator  
 R= RC Snubber circuit (115 or 230V)

P12-Y-PM .....VAC  
 P12-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 (24/48V)

P12-Y-PM .....VDC  
 P12-Y-PWM .....VDC  
 P12-Y-PZM .....VDC  
 P12-Y-PBM .....VDC

## Suitable Sockets : S12D-YA, S12LD-YA, S12P

## Approvals

