

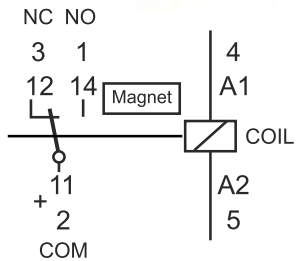


# P1...M

## MAGNETIC BLOW OUT

### One Pole, Change-Over Contact

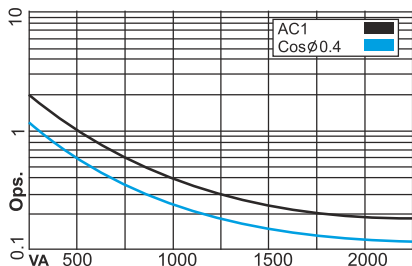
**10A 250V AC1    4A 220V DC1**  
**10A 30V DC1    1A 220V DC13**



### Contacts

Materials: Standard	AgNi
Optional, code 1	AgNi + Au 0.2μ
Optional, code 2	AgNi + Au 5.0μ
Max. switching current	10 A
Max. Peak inrush current (20 ms.)	30 A
Max. Switching voltage	250 V
Max. AC load (Graph 1)*	2.5 KVA
Max. DC load	See Graph 6*

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

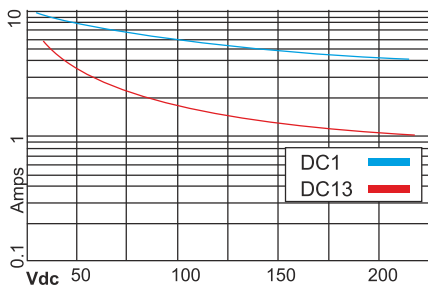


### Coils (Ohms ± 10% @ 20°C)

Pull-in voltage	≤ 0.8 x <b>Un</b>
Drop-out voltage	≥ 0.1 x <b>Un</b>
Nominal Coil Power	1.1 VA (AC) / 0.7 W (DC)

VAC	Ω	mA	VDC	Ω	mA
24	290	45.0	12	224	53.0
48	1200	23.0	24	742	32.0
115	7,300	9.5	48	3,500	13.7
230	28,800	4.7	110	19,900	5.5

**Graph 6** Max. DC load



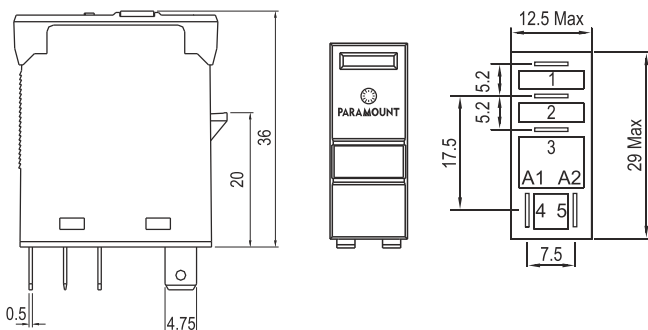
### Insulation

Dielectric strength (1 minute):	
Open contacts	1 KV
Between Contacts & Coil	5 KV
Insulation resistance at 500VDC	>3GΩ
Isolation, IEC 61810-5:	4 KV / 3

### Specifications

Operate Time + Bounce Time	10 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 Grade	IP40 / RT1
Weight Approx.	21 gms.

### Dimensions in mm.



### Standard types

<b>AC</b> : 6, 12, 24, 48, 115, 230	<b>P1-FP-M ... VAC</b>
<b>DC</b> : 6, 12, 24, 48, 110	<b>P1-FPZ-M ... VDC</b>

**F** = Mechanical Flag Indicator  
**P** = LED Indicator across the Coil  
**Z** = Polarity and Free Wheeling Diode  
**M** = Magnetic Blow Out

### Suitable Sockets : S10K, S1D, S1LD, S1P

### Approvals

