

P1-A

One Pole, Normally Open Contact

10A 250V AC1 0.8A 110V DC1
10A 30V DC1 0.4A 220V DC1

Contacts

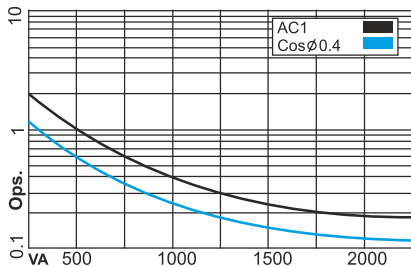
Materials: Standard AgNi
 Optional, code 1 AgNi + Au 0.2μ
 Optional, code 2 AgNi + Au 5.0μ
 Max. switching current 10 A
 Max. Peak inrush current (20 ms.) 30 A
 Max. Switching voltage 250 V
 Max. AC load (Graph 1) 2.5 KVA
 Max. DC load See Graph 3*

Coils (Ohms ± 10% @ 20°C)

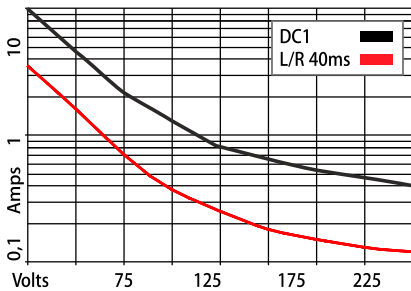
Pull-in voltage ≤ 0.8 x Un
 Drop-out voltage ≥ 0.1 x Un
 Nominal Coil Power 1.1 VA (AC) / 0.7 W (DC)

| 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 1 Electrical life, ops x 10⁶



Graph 3 Max. DC load



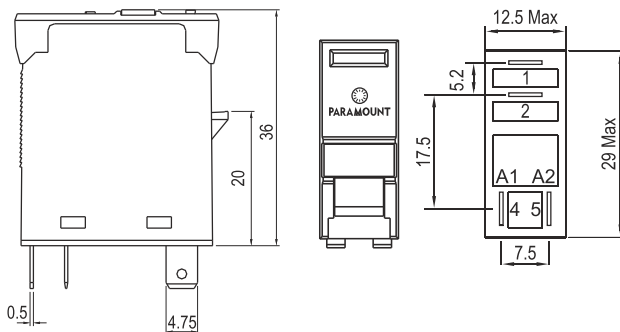
Insulation

Dielectric strength (1 minute):
 Open contacts 2 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

AC 50 Hz : 12, 24, 115, 230
 F = Mechanical Flag Indicator
 P = LED
 R = R/C (Snubber Circuit)
DC 6, 12, 24, 48, 110
 F = Mechanical Flag Indicator
 P = LED
 Z = Polarity & Free-Wheeling Diodes
 I = Lockable & Manual Push Button
 B = AC/DC Bridge Rectifier (24/48V)

| | |
|----------|----------|
| P1-A-F | VAC |
| P1-A-FP | VAC |
| P1-A-FPR | VAC |
| P1-A-F | VDC |
| P1-A-FP | VDC |
| P1-A-FPZ | VDC |
| P1-A-FPI | VDC |
| P1-A-FPB | VDC |

Suitable Sockets : S10K, S1D-A, S1LD-A, S1P

Approvals

