

P1

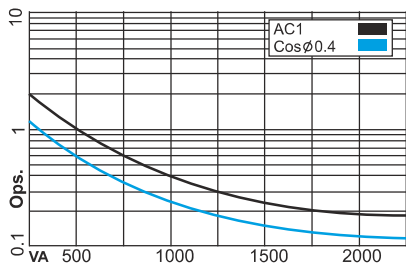
One Pole, Change-Over Contact

10A 250V AC1 0.5A 110V DC1
10A 30V DC1 0.2A 220V DC1

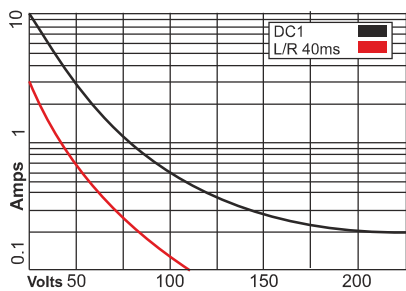
Contacts

| | |
|-----------------------------------|----------------|
| 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 2* |

Graph 1 Electrical life, ops x 10⁶



Graph 2 Max. DC load



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 |

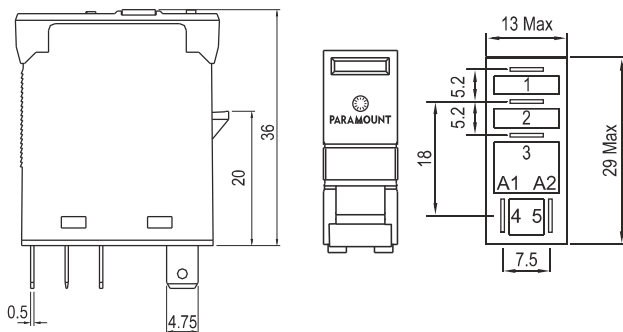
Insulation

| | |
|---------------------------------|----------|
| 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 (Graph 1) | IP40 / RT1 |
| Weight Approx. | 21 gms. |

Dimensions in mm.



Standard types

| | |
|--------------------------------------|-------------------------|
| AC 50 Hz : 24, 48, 115, 230 | |
| F = Mechanical Flag Indicator | P1-F VAC |
| P = LED | P1-FP VAC |
| R = R/C (Snubber Circuit) (115/230V) | P1-FPR VAC |
| DC 6, 12, 24, 48, 110 | |
| F = Mechanical Flag Indicator | P1-F VDC |
| P = LED | P1-FP VDC |
| W = Free-Wheeling Diodes | P1-FPW VDC |
| Z = Polarity & Free-Wheeling Diodes | P1-FPZ VDC |
| I = Lockable & Manual Push Button | P1-FPZI VDC |
| B = AC/DC Bridge Rectifier (24/48V) | P1-FPB VDC |

Suitable Sockets : S10K, S1D, S1LD, S1HD, S1P

Approvals

