PARAMOUNT
EXPECT MORE...

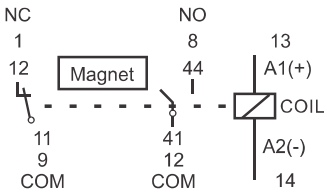

# P12-X-M

**DC Switching Relay, 1NO + 1NC Contacts**

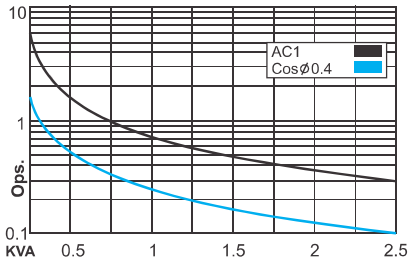
**10 A 250V AC1 5.0 A 220V DC1**

**10 A 30V DC1 1.5 A 220V DC13**

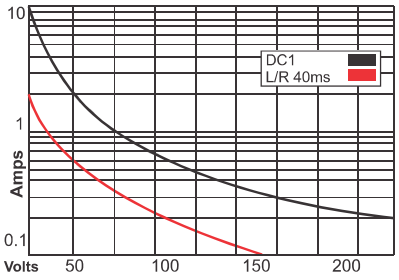
## Pin configuration



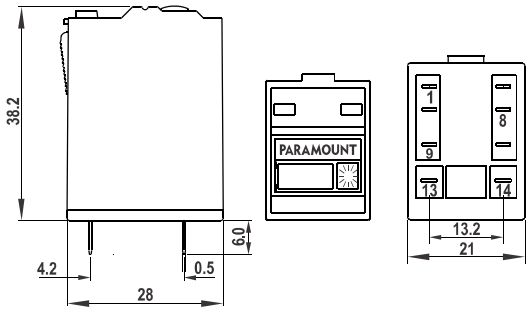

## Graph 1 Electrical life, ops x $10^6$




## Graph 2 Max. DC load




## Dimensions in mm.




## 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 |

## Coils (Ohms ± 10% @ 20ºC)

| | |
|---|---|
| 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 |

## Insulation

| | |
|---|---|
| Dielectric strength (1 minute): Open contacts | |
| Between adjacent poles | 2.5 KV |
| Between Contacts & Coil | 2.5KV |
| Insolation 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 | -40ºC (no ice).... +70ºC |
| 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. |

## Standard Types

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

**F** = Mechanical Blow Out
**P** = LED Indicator — **P12-X-PM** .....**VAC**
**R**= RC Snubber circuit (115 or 230V) — **P12-X-PRM** .....**VAC**

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

**P** = LED — **P12-X-PM** .....**VDC**
**W** = Free Wheeling Diode — **P12-X-PWM** .....**VDC**
**Z** = Polarity & Free Wheeling Diode — **P12-X-PZM** .....**VDC**
**B**= AC/DC Bridge Rectifer (24/48V) — **P12-X-PBM** .....**VDC**

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

## Approvals

TÜV CE