

DATA SHEET

Relays RL 42-I / RL 42 / RL 21



High voltage relay RL 42-I, up to 6,000 V AC, low current



High voltage relay RL 42, up to 6,000 V AC



High voltage relay RL 21, up to 6,000 V AC

| | | RL 42-I | RL 42 | RL 21 |
|------------------------------------|---------------------------------|--|--|--------------------------|
| Contacts | | double pole double throw | | single pole double throw |
| Field coil | Coil voltage | 24 V DC (5 – 55 °C) | | |
| | Holding current | 0.07 A (20 °C) | 0.20 A (20 °C) | |
| | Inrush current (first 100 ms) | 0.25 A | | |
| Coil resistance | | 115 Ω (20 °C) | | |
| Status indication | | LED | | – |
| Connections | Switching circuits | flat plug 6.3 mm (0.25 in.) | | |
| | Field coil | flat plug 4.8 mm (0.19 in.) | | |
| Switching capacity | | max. 5,000 VA (ohmic load) | | |
| Test voltage | Contact / field coil | 20,000 V DC | | |
| | Contact set 11 / contact set 21 | 8,000 V DC | – | |
| Switching voltage max. | | 6,000 V AC | | |
| Switching current | | max. 10 A AC | | |
| Continuous current | | max. 30 A AC / DC | | |
| Transition resistance | | < 30 mΩ | < 40 mΩ | |
| Switching frequency | | max. 3 / s | | |
| Mechanical switching cycles | | > 5 x 10 ⁶ | | |
| B10d value | I ≤ 10% I _{max} | > 3 x 10 ⁶ | | |
| Vibration resistance | 10 – 55 Hz/g | 5 | | |
| Shock strength | g – 11ms | 5 | | |
| Carrier material | | PBT GF30 | | |
| Protection system | | IP 20 | | |
| General data | Dimensions (HxWxD) and weight: | 55 x 78 x 48 mm / approx. 300 g 2.2 x 3.1 x 1.9 in. / approx. 0.66 lbs. | 55 x 78 x 40 mm / approx. 260 g 2.2 x 3.1 x 1.6 in. / approx. 0.57 lbs. | |
| | Storage / Operation temp. | -25 up to +40 °C / +5 up to +55 °C | | |
| Fastening | | Top rail (via Mounting Clip) | | |
| Accessories | | Mounting Clip MC 22, Contact Protection DK 11 | | |

