



PL290

Applications

- Electrical servo drive
- Rehabilitation equipment

Features

- Small dimensions
- 0.5 Mio. cycles
- Very good resolution, better 0,1°
- Linearity $\pm 2\%$

Options

- Custom shafts design
- Custom bushing design
- Other electrical angles between 20° und 270°
- Continuous rotation

| Electrical Data | | |
|---|--------------|------------------|
| Nominal resistance | 1/5/10 | kOhm |
| Resistance tolerance | ± 20 | % |
| Independent linearity | ± 2 | % of meas. range |
| Electrical angle | 270 | ° |
| Temperature coefficient of the voltage divider | 50 | ppm/°C |
| Recommended wiper current | max. 1 | μA |
| Max. wiper current in case of malfunction | 10 | mA |
| Power rating P | max. 0.5 | W/40°C |
| Min. life (electrical) | 1 Mio. | cycles |
| Mechanical Data | | |
| Mechanical range | 300 | ° |
| Torque | max. 1 | Ncm |
| Min. life (mechanical) | 500'000 | cycles |
| Operating temperature | -25 ... +125 | °C |
| Storage temperature | -40 ... +125 | °C |
| Protection class | IP50 | |
| Standards | | |
| Insulating resistance (500 VDC, 1bar, 2s) | 10 | GOhm |
| Dielectric strength (VAC, 50Hz, 1min, 1bar) | 1.5 | kV |
| Vibration ($A_{max} = 0.75\text{mm}$, $f = 30 \dots 2000\text{ Hz}$) | 10 | g |
| Shock (half sine pulse, 7 ms) | 50 | g |

Errors and omissions excepted.
Subject to change without notice.
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