



PC20

Applications

- Readout potentiometer

Features

- Compact dimensions
- Elevated torque
- High temperature range
- Protection class IP67

Options

- Other nominal resistances
- Electrical angles between 30° and 315°
- Without elevated torque

| Electrical Data | | |
|--|-----------|------------------|
| Nominal resistance | 20 | kOhm |
| Resistance tolerance | ±20 | % |
| Independent linearity | ±2.5 | % of meas. range |
| Electrical angle | 315 | ° |
| Angle tolerance (electrical) | ±3 | ° |
| Temperature coefficient of the voltage divider | 100 | ppm/°C |
| Recommended wiper current | max. 1 | µA |
| Max. wiper current in case of malfunction | 100 | mA |
| Power rating P | max. 0.75 | W/40°C |
| Min. life (electrical) | 50'000 | cycles |

| Mechanical Data | | |
|-----------------------------------|--------------|----------|
| Mechanical range | 320 | ° |
| Angle tolerance (mechanical) | ±2 | ° |
| Torque | 2...6 | Ncm |
| Min. life (mechanical) | 50'000 | cycles |
| Operating temperature | -25 ... +125 | °C |
| Storage temperature | -55 ... +125 | °C |
| Protection class | IP67* | |
| End-stop strength | max. 70 | Ncm |
| Draw out force of the shaft | min. 40 | N / 1min |
| Draw out force of the wires | min. 50 | N / 1min |
| Permitted torque for nut fixation | max. 75 | Ncm |

| Standards | | |
|---|-----|------|
| Insulating resistance (500 VDC, 1bar, 2s) | 8 | GOhm |
| Dielectric strength (VAC, 50Hz, 1min, 1bar) | 1.5 | kV |
| Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz) | 10 | g |
| Shock (half sine pulse, 7 ms) | 50 | g |

Errors and omissions excepted. Subject to change without notice. / State: 18.04.09

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* The wires on customer side have to be sealed to fulfill the protection class of IP67.