

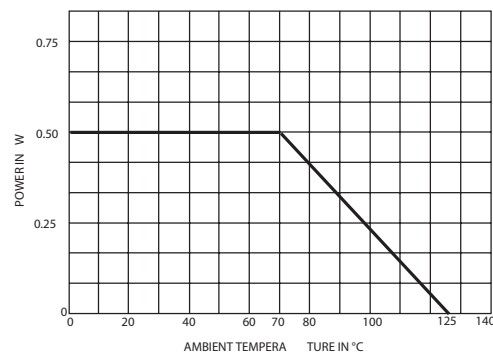
SPECIFICATIONS

ELECTRICAL SPECIFICATIONS		
Resistive Element		cermet
Electrical Travel		15 turns \pm 1
Resistance Range		10 Ω to 2.2 M Ω
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5
Tolerance	Standard	\pm 10 %
	On Request	\pm 5 %
Power Rating	Linear	0.50 W at + 70 °C
	Logarithmic	not applicable
Temperature Coefficient		See Standard Resistance Element Table
Limiting Element Voltage (Linear Law)		250 V
Contact Resistance Variation		2 % Rn or 1 Ω
End Resistance (Typical)		1 Ω
Dielectric Strength (RMS)		1000 V
Insulation Resistance (500 VDC)		10 ⁶ M Ω

MECHANICAL SPECIFICATIONS

Mechanical Travel	18 turns \pm 5
Operating Torque (max. Ncm)	2
End Stop Torque	clutch action
Unit Weight (max. g)	1
Wiper (actual travel)	positioned at approx. 50 %
Environmental specifications	
Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART



PERFORMANCE			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\frac{\Delta RT}{RT}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$
Load Life	1000 hours at rated power 90'/30' - ambient temp. 70 °C	\pm 1 % Contact res. variation: < 3 % Rn	\pm (3 % \pm 5 Ω)
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	\pm 0.5 %	\pm 1 %
Long Term Damp Heat	56 days	\pm 0.5 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ M Ω	\pm 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	\pm 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 1 \%$
Shock	50 g at 11 m seconds 3 successive shocks in 3 directions	\pm 0.2 %	$\pm 0.3 \%$
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	\pm 0.2 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 0.3 \%$
Rotational Life	200 cycles	\pm (2 % + 3 Ω) Contact res. variation: < 2 % Rn	