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DATA SHEET

SEMPER Gas Discharge Tube, 230 V

9071.99.0647

Properties

- Designed for operations exceeding 25 years
- GDT specification according to international standard ITU-T K.12
- Self Extinguisher GDT with holder included



Interface and material data	
Housing material / plating	Brass / SUCOPLATE (R) Plating

Electrical data	
CW power frame	≤ 140 W
DC sparkover	230 V, +/- 15 % (@ 100 V/s)
Impulse sparkover 100 V/µs	450 V
Impulse sparkover 1000 V/µs	675 V
Insulation resistance	> 10 GΩ (@ 100 V)
Glow voltage	approx. 70 V (@ 10 mA)
Arc voltage	approx. 10 V (@ > 1 A)
Glow-Arc transition current	< 0.5 A
Capacitance	< 1 pF (@ 1 MHz)
DC Holdover voltage	< 150 ms (@ 135 V)
Impulse discharge current	≥ 1 operations (@ 30 kA, 8/20 µs)
	≥ 10 operations (@ 20 kA, 8/20 µs)
	≥ 400 operations (@ 500 A, 10/1000 µs)
	≥ 1000 operations (@ 100 A, 10/1000 µs or 10/7000 µs)
Alter discharge current	≥ 1 operations (@ 65 Arms, 11 cycles)
	≥ 10 operations (@ 10 Arms, 1 s)
DC current	≤ 2.5 A at 48 V
	≤ 4 A at 27 V
	≤ 6 A at 24 V
	≤ 13 A at 17 V
Turn-off time	20 sec. typically at 2.0 A and 25°C ambient temperature
	< 40 sec. typically below 1 A and 25°C ambient temperature
Recovery time	7 sec. at 25°C ambient temperature

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Mechanical data	
Weight	13.7 g

Environmental data	
Operation temperature	-20 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	Unmated / IP66, IP68, according to IEC 60529 (24 h of water, 1 m)

Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84010427	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

Additional Information	
Remarks	GDT unit for retrofit and replacement for series 3401 and 3402
With capsule holder	Yes

Ordering Information Table	
Item number	Item description
84010427	9071.99.0647

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