

SEMPER Gas Discharge Tube, 90 V

9071.99.0648

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	≤ 20 W
DC sparkover	90 V, +/- 20 % (@ 100 V/s)
Impulse sparkover 100 V/μs	300 V
Impulse sparkover 1000 V/μs	500 V
Insulation resistance	> 10 GΩ (@ 50 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 (@ 52 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)

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
84015426	9071.99.0648

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