



Uncontrolled protector and switching gaps

LA86

Specifications

High-power gaps of series LA86 are intended for protection of the communication circuits of the ground-based and mobile equipment and devices from the direct lightning stroke during the thunderstorm.

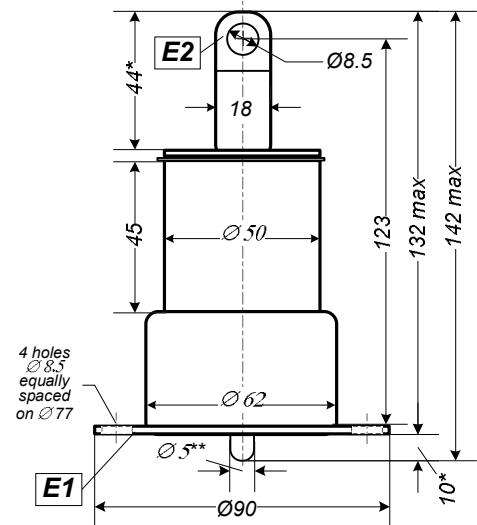
The spark gap is a sealed-off valve brazed into a ceramic-metal envelope. The switch does not contain radio-active and toxic materials.

MAIN PARAMETERS	
Static breakdown voltage (U_{st}), kV °	(1,0±50,0) ±10%
Dynamic breakdown voltage (U_d), kV, at $dU/dt = 25 \text{ kV}/\mu\text{s}$	<40
Peak anode current, max (I_b), kA	200.0
Anode current pulse width (at level of 0.1), μs	60
Delay time at $dU/dt = 25 \text{ kV}/\mu\text{s}$, μs	<0.25
Capacitance max, pF	<15
Insulation Resistance, $M\Omega$	> 10.0
Net weight (approx.), g	800
Operating temperature, °C	-60 to +150
Impulse ratio, measured at 15 kV/ms (no test data above 10 kV dc)	3 max at 1.0 kV 1.5 max at 10.0 kV dc

All ratings given in this data sheet are absolute, nonsimultaneous ratings. It is the equipment designer's responsibility to ensure that they are not exceeded. The spark gap life depends on circuit conditions such as peak discharge current and duration, charge transfer per discharge and the repetition rate.
 ° LA86 is a signification of a line of spark gaps with different Self Breakdown Voltages (SBV). Parts with different SBV ratings are available on order. At that in case when SBV=12 kV the spark gap is signified as LA86-12, SBV=45 kV - LA86-45 etc.

Maintenance notes :

1. The device can be operated in any position.
2. Natural (non-forced) cooling.
3. The spark gap is fixed in apparatus by a flange (E1) and a flat part (thickness 6 mm) of rod E2 using screw M8, spring washer 8 and nut M8. Torque for tightening the nut should not exceed 2,5 Nm (0,25 kg f·m). Deforming of the gap pin cannot be allowed. One connection (E2) must be flexible.
4. Reasonable life can be achieved with high current reversal, but for maximum life a critically damped circuit is preferred.
5. Long life depends on even distribution of the discharge around the electrodes. The electromagnetic fields generated by the discharge may be sufficient to produce a preferred discharge path which in turn might lead to excessive local erosion and reduced life.
6. Delay time is calculated as: $(U_d - U_{st}) / (dU/dt)$.



All dimensions in millimeters.

* Reference dimensions.

** Do not clamp or connect to this cover.

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