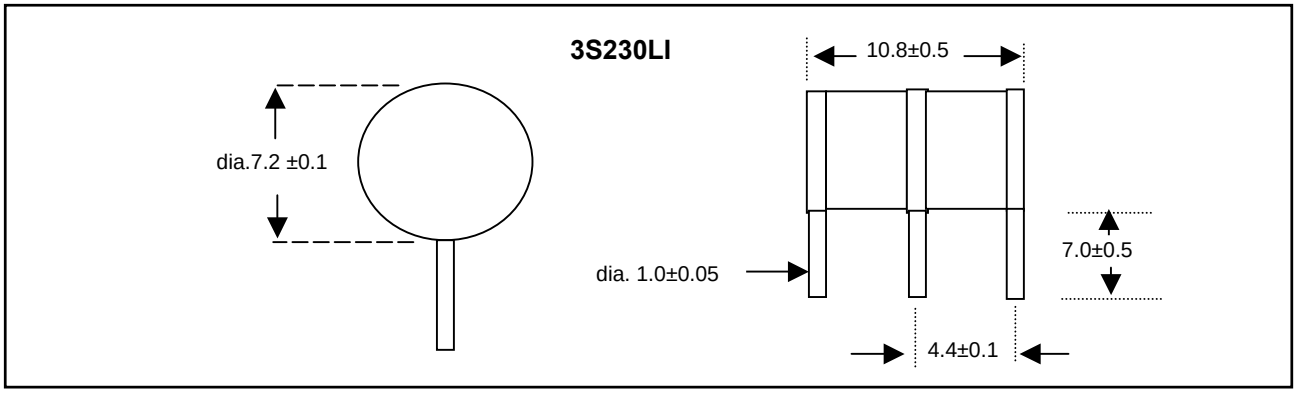
HAKEL GAS DISCHARGE TUBES - SALIENT FEATURES

* **Stable breakdown voltage**
* **High insulation resistance; enables the use in high temperature and humidity**
* **Small capacitance; minimises transmission loss and noise even with high frequency range**
* **High durability against surges and fast restorability**
* **Long life**
* **Free of radioactive substance**
* **Inexpensive for superior performance**
* **High mechanical strength prevents leak and breakdown from strong shock**
* **Various types available**



Type	3 TERMINAL CERAMIC TYPE GD TUBE - 3S230LI		
Sl. No.	**Description**	**Test Condition**	**Specification**
	ELECTRICAL CHARACTERISTICS, Test Methods as per ITU-T (CCITT) K.12		
1	D.C Spark-Over Voltage	100V/Sec	230 ±20%
2	Impulse Spark-Over Voltage	100V/µsec	<500V
3	Impulse Spark-Over Voltage	1000V/µsec	<650V
4	Impulse Transverse Delay	1000 V/µ sec	< 75ns
5	Insulation Resistance	100V	$>10^{10}$Ohm
6	Glow Voltage	10 mA	< 70 V
7	Arc Voltage	2 A	< 10 V
8	Capacitance	1 M Hz	< 1.5 pF
9	DC Holdover Voltage	135 V	< 150 ms
10	Impulse Discharge Current	10000 A, 8/20µsec	10 Operations
		200 A, 10/700µsec	500 Operations
		200 A, 10/1000µsec	300 Operations
11	Alternating Discharge Current	10 A r.m.s, 1 sec	10 Operations

NOTES:

1. All dimensions are in mm
2. Electrodes are nickel plated where as all lead terminals are Tin plated.
3. Marking on the GD Tube — 3S230L
   - 3 : 3 Terminal GD Tube
   - S : Dimension
   - 230 : 230 Volts
   - L : With leads
   - HAKEL : Manufacturer
   - MM : Month of manufacture
   - YY : Year of manufacture
4. **The above model is also available with fail safe mechanism which is named as 3S230LIF**
5. **This model can be supplied without Leads, namely 3S230**
6. Blister Packing