

# TECHNICAL DATA SHEET

## LPI® Neutral / Earth Module



### Features

- Encapsulated spark gap technology
- Low follow on current
- 35 mm DIN rail mount
- NE-15B Bluetooth Connectivity

The LPI NE range lightning arrester is intended for applications in unmeasured parts of electrical installations within the lightning protection zones concept at the boundaries LPZ 0 A(B) -1 (according to IEC 62305-4).

The LPI NE range of lightning arresters are constructed as encapsulated (non-venting) chamber carbon spark gaps.

The LPI NE range is a single pole neutral–earth high energy protection device to protect electronic equipment from lightning current surges.

### Technical Specifications

Product Code:	NE-15B	NE-100
Nominal Operating Voltage: $U_n$	230 V/50 Hz	
Max. Continuous Operating Voltage: $U_c$	255 V/50 Hz	
Voltage Protection Level at Limp: $U_p$	<1.5 kV	<1.5 kV
Max. Lightning Impulse Current: $I_{imp}$	15 kA (10/350 $\mu$ s)	100 kA (10/350 $\mu$ s)
Max. Lightning Impulse Current: $I_{max}$	80 kA (8/20 $\mu$ s)	150 kA (8/20 $\mu$ s)
Specific Energy: W/R	50 kJ/ $\Omega$	2500 kJ/ $\Omega$
Insulation Resistance: $R_i$	>1000 M $\Omega$	
Response Time: $t_A$	<100 ns	
Standard:	IEC 61643 and EN 61643	
Operating Temperature Range:	-40 to +80 °C	
Recommended Cross-Section of Connected Conductors:	10 mm <sup>2</sup> (at 3 Nm clamping force)	50 mm <sup>2</sup> (solid) or 35 mm <sup>2</sup> (flexible) (at 4 Nm clamping force)
Status Indication:	LED display: showing operational condition	-
Bluetooth Connectivity:	Status indication, operating voltage, Harmonic THD %, Internal temp & Surge Impulse Count	-
Protection Type:	IP 20	
Mounting:	DIN rail 35 mm	
Housing Material:	SLOVAMID 6FRC2	
Colour:	Blue	
Weight:	135 g	231 g
Application:	Main and sub-distribution boards (between N&E conductors only)	Main and sub-distribution boards (between N&E conductors only)
Dimensions:	80 (H) x 17.5 (W) x 90 mm (L)	65 (H) x 35 (W) x 90 mm (L)
Warranty:	5 Years	

### IMPORTANT INFORMATION:

NE-15B: The Neutral and phase terminals are polarity sensitive, installation to be completed as per illustrations on pages 15 & 16.