



## IL 1/10 2P 230

**IL 1/10 2P is a combined voltage limiting and voltage switching SPD providing three modes of protection, typically installed in Sub Distribution Boards (SDBs) or control boards for single-phase 230 V TT-systems, with the following features and benefits:**

- **Impulse test classification: Test class II** according to **IEC 61643-11 Ed. 1 (2011-03)** and **Type 2** according to **EN 61643-11 (2012-10)**;
- IL 1/10 2P is a varistor and GDT based combination SPD for the protection of low voltage installations against indirect lightning effects;
- **NFC No Follow Current®** technology, there are no follow currents drawn from the power supply system after operation;
- Two colour Status Indicator (green / red);
- Provides three modes of protection in a one module housing (L-N, L-PE, N-PE);
- Leakage current free and galvanic insulation from earth due to the Gas Discharge Tube (GDT);
- Suitable for installation at zone boundaries up to  $O_b - 1$  according to the lightning protection zones concept as defined in IEC 62305.

Model IL 1/10 2P ...

230

CODE (pluggable execution)		222 100
Nominal ac system voltage	$U_N$	230 V ac
Maximum Continuous Operating Voltage	$U_c$	335 V ac
Test Class according to IEC 61643-11 Ed.1 (2011-03)		II
Type according to EN 61643-11 (2012-10)		T2
Nominal discharge current (8/20 $\mu$ s) (L / N-PE)	$I_n$	10 kA
Maximum discharge current (8/20 $\mu$ s) (L / N-PE)	$I_{max}$	20 kA
Impulse discharge current (10/350 $\mu$ s) for (L / N-PE)	$I_{imp}$	1 kA
Voltage protection level at $I_n$	$U_p$	$\leq 1,50$ kV (L + N /PE) $\leq 1,50$ kV (L / N)
Response time	$t_a$	$\leq 25$ ns (L / N) - $\leq 100$ ns (N / PE)
End of Life		OCFM (open circuit failure mode)
Behaviour of failure mode in case of Temporary OverVoltage (TOV):	L-N L-PE N-PE	$U_T$ 335 V / 5 s, withstand (W); 440 V / 120 min, withstand (W) $U_T$ 1455 V / 200 ms, safe (S) $U_T$ 1200 V / 200 ms, withstand (W)
Insulation resistance	$R_{isol}$	$\geq 1$ G $\Omega$
Max. back-up protection with FUSE		32 A gG
Short Circuit Current rating with max. backup protection with fuse	$I_{scrr}$	20 kA rms
Follow current interrupt rating		NFC No Follow Current®
Operating temperature range		- 40 ... + 70 °C
Terminal-Conductor size		L / N 1,5-4 mm <sup>2</sup> flexible PE 2,5-16 mm <sup>2</sup> flexible
Busbar connection		fork-type busbar 16 mm <sup>2</sup> (only PE)
Mounting		indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715
Enclosure material		thermoplastic
Pollution degree / Degree of protection	PD / IP	2 / 20 (built-in)
Approximate weight		100 g
Dimension: width		17,5 mm (1 module)
GTIN (EAN)		8054890321747

TECHNICAL DATA