



TPK-I-50-xxx/3+1/(S) Power supply system: TT

Lightning Current Arresters	Type 1	Class I
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Monobloc format

TPK-I-50-xxx is the most robust range of Type 1/Class I lightning current arresters, able to discharge energy (current) from a direct lightning strike (10/350) on an external lightning protection system (LPS) or overhead supplies, in accordance with EN/IEC 61643-11. DIN rail monobloc format.

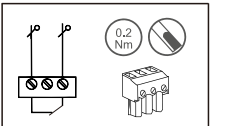
- Suitable as a first step of protection in incoming power supply panels and in areas of high atmospheric exposure.
- Discharges impulse currents with a 10/350 μ s waveform: 50 kA per phase.
- Exclusive devices for TT earthing systems.
- Exclusive devices which are compatible with Power Line Communication networks.
- Biconnect - two types of terminal: for rigid or flexible cable and for fork type comb busbar.
- Available with optional remote signalling.

Application

- AC/DC distribution
- Power supplies
- Industrial automation
- Telecommunications
- Motor controls systems
- PLC applications
- Power transfer equipment
- HVAC applications
- AC drives
- UPS systems
- Security systems
- IT / Data centers
- Medical equipment

Features/Benefits

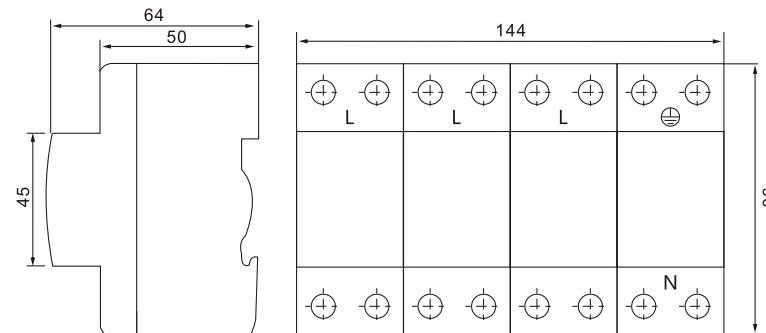
- Easy installation or retrofit
- Din-rail mountable
- Fail-safe /self-protected design
- Remote indicator (optional) with 2 pin C/NC contact
- IP20



Data sheet

Type	TPK-I-50-xxx/3+1/(S)
Technical Data	
Power supply system	TT
Nominal line voltage (Un)	230/400 V (50/60Hz)
Maximum continuous voltage (Uc) (L-N)	255V
Maximum continuous voltage (Uc) (N-PE)	255V
SPD to EN 61643-11, IEC 61643-11	Type 1 , class I
Lightning impulse current (10/350µs) (Iimp)(L-N)	50kA
Lightning impulse current (10/350µs) (Iimp)(N-PE)	100kA
Nominal discharge current (8/20µs) (In)(L-N)	50kA
Nominal discharge current (8/20µs) (In)(N-PE)	100kA
Voltage protection level (Up) (L-N,N-PE)	≤ 2.0kV
Response time (tA) (L-N,N-PE)	< 100ns
Operating State/Fault Indication	no
Degree of protection	IP 20
Insulating material / flammability class	PA66,UL94 V-0
Temperature range	-40° C~+80° C
Altitude	13123 ft [4000m]
Conductor Cross Section (max)	35mm2 (Solid) / 25mm2 (Flexible)
Remote Contacts (RC)	Optional
Format	Monobloc
For mounting on	DIN rail 35mm
Place of installation	indoor installation

Dimensions



Internal configuration

