



TPK-12.5-xxx/3+1/(S) Power supply system: TT

Power Surge Protector | Type 1+2 / Class I+II

Plug-in format

TPK-12.5-xxx is the range of devices for discharging induced transient overvoltages (Type 1+2 / Class I+II), in accordance with EN/IEC 61643-11. DIN rail plug-in format. Ability to discharge lightning currents (10/350 μ s) and induced voltage surges (8/20 μ s).

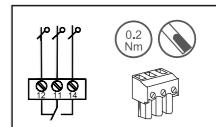
- Suitable for the second stage of protection in supply distribution panels.
- Discharge capacity with an 8/20 μ s waveform. Imax: 60 kA.
- Exclusive devices for TT earthing systems.
- Exclusive devices which are compatible with Power Line Communication networks.
- Biconnect - two types of terminal: 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

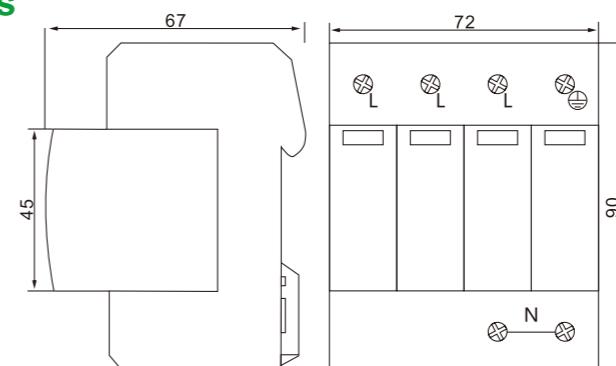
Easy installation or retrofit
Din-rail mountable
Fail-safe /self-protected design
Remote indicator (optional) with 3 pin NO/NC contact
IP20 finger-safe design
Visual indicator
Small foot print



Data sheet

Type	TPK-12.5-xxx/3+1/(S)
Technical Data	
Power supply system	TT
Maximum continuous voltage (Uc)(L-N)	275 / 320 / 385 / 420V
Maximum continuous voltage (Uc) (N-PE)	255V
SPD to EN 61643-11, SPD to IEC 61643-11	Type 1+2 , class I+II
Lightning impulse current (10/350 μ s) (Iimp)(L-N)	12.5kA
Lightning impulse current (10/350 μ s) (Iimp)(N-PE)	50kA
Nominal discharge current (8/20 μ s) (In)(L-N,N-PE)	30kA
Maximum discharge current (8/20 μ s) (Imax)(L-N,N-PE)	60kA
Voltage protection level (Up) (L-N)	\leq 1.4 / 1.6 / 1.8 / 2.0kV
Voltage protection level (Up) (N-PE)	\leq 1.5kV
Response time (tA) (L-N)	< 25ns
Response time (tA) (N-PE)	< 100ns
Operating State/Fault Indication	Green (good) / Red (replace)
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)	35mm ² (Solid) / 25mm ² (Flexible)
Format	Pluggable
For mounting on	DIN rail 35mm
Place of installation	indoor installation
Remote Contacts (RC)	Optional

Dimensions



Internal configuration

