



TPK-I-15-xxx/4+0/(S) Power supply system: TNS

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

Monobloc format

TPK-I-15-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 Monobloc format. Ability to discharge lightning currents (10/350μs) and induced voltage surges (8/20 μs).

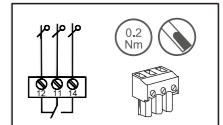
- Suitable as the first step of protection in incoming power supply panels and areas with greater exposure to the atmosphere, where installations are usually provided with an external lightning protection system.
- Discharges impulse currents with a (10/350 μs) waveform: 15 kA per phase.
- Discharge capacity with an (8/20 μs) waveform. Imax: 120 kA.
- Exclusive devices for TNS 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

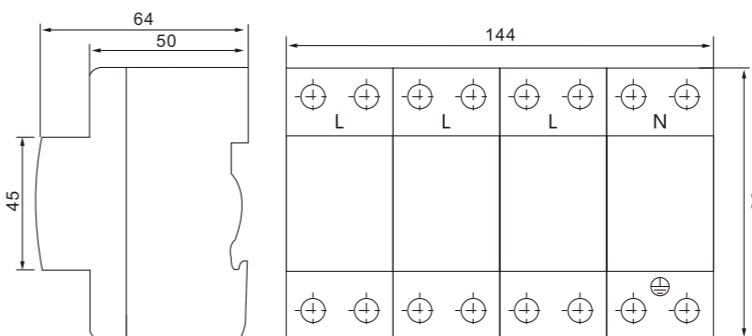
Easy installation or retrofit
Din-rail mountable
Fail-safe /self-protected design
Remote indicator (optional) with 3 pin NO/NC contact
IP20 finger-safe design
Visual indicator
Small foot print



Data sheet

Type	TPK-I-15-xxx/4+0/(S)
Technical Data	
Power supply system	TNS
Maximum continuous voltage (Uc)	275 / 320 / 385 / 420V
SPD to EN 61643-11 , SPD to IEC 61643-11	Type 1+2 , class I+II
Lightning impulse current (10/350μs) (Imp)	15kA
Nominal discharge current (8/20μs) (In)	60kA
Maximum discharge current (8/20μs) (Imax)	120kA
Voltage protection level (Up)	≤ 2.0 / 2.2 / 2.5/ 2.5kV
Response time (tA)	< 25ns
Thermal Protection	YES
Operating State/Fault Indication	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	Monobloc
For mounting on	DIN rail 35mm
Place of installation	indoor installation
Remote Contacts (RC)	Optional
Type of remote signalling contact	changeover contact
Cross-sectional area for remote signalling terminals	max. 1.5 mm ² solid / flexible

Dimensions



Internal configuration

