



## TPK-I-15-xxx/3+0/(S) Power supply system: TNC

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

#### Monobloc format

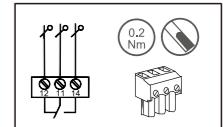
TPK-I-15-xxx is the range of devices for discharging induced transient overvoltages (Type 1+2 / Class I+II), in accordance with EN/IEC 61643-11. DIN rail Monobloc format. Ability to discharge lightning currents (10/350μs) and induced voltage surges (8/20 μs).

- 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 TNC 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

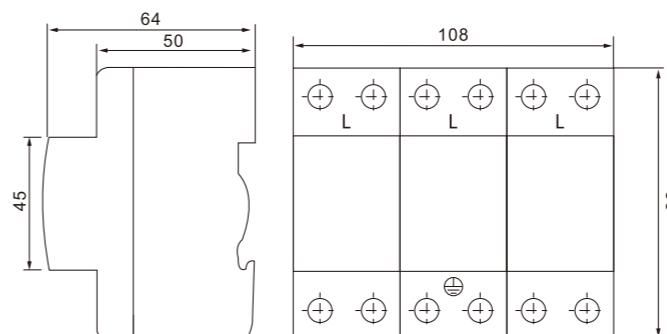
Easy installation or retrofit  
Din-rail mountable  
Fail-safe /self-protected design  
Remote indicator (optional) with 3 pin NO/NC contact  
IP20 finger-safe design  
Visual indicator  
Small foot print



#### Data sheet

Type	TPK-I-15-xxx/3+0/(S)
Technical Data	
Power supply system	TNC
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) (Iimp)	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 <sup>2</sup> (Solid) / 25mm <sup>2</sup> (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 <sup>2</sup> solid / flexible

#### Dimensions



#### Internal configuration

