

# STMZT12 Series-MZ

## SURGE PROTECTION FOR POWER LINES

### BUSBAR 40 MM IEC TYPE 1+2



STMZ T12 is the series of combined Type 1+2/Class I+II devices according to EN 61643-11 for use in the pre-counter area installed directly on 40 mm busbar system with coordination to terminal equipment ( $\leq 5\text{m}$ ) Typ 1+2+3. Easy end fast fulfillment of VDE 0100-443/-534. Depending on the product it can be used for TNC or TT-/TNS systems as well as for applications with or without external lightning protection systems.

## TECHNICAL DATA OVERVIEW

Class	Type 1+2 / Class I+II
$U_n$	230/400V
$U_c$	255 V
$I_n$ (8/20)	20 kA
Body Material	Thermoplastic; Gray; UL 94V-0
System type	TT, TNS, TNC
Number of poles	3, 4
Format	Monobloc
Temperature range	-40 ... 80 ° C
IP Code	30
Back-up fuse	160 A gG
Stranded wire Section	50 ... 50 mm <sup>2</sup>
Rigid wire Section	10 ... 35 mm <sup>2</sup>

## FEATURES & BENEFITS

- 40 mm busbar mountable, monobloc format
- Leakage current free technology intended for pre-meter protection
- Lightning impulse current (10/350 $\mu\text{s}$ ): 7.5 kA or 12.5 kA
- Nominal discharge current (8/20 $\mu\text{s}$ ): 20kA per phase
- TNS, TNC and TT networks
- $U_n(\text{L-N/L-L})$ : 230/400V
- Visual end of life indicators
- Voltage protection level Up at  $I_n \leq 1,5 \text{ kV}$

## APPLICATIONS

- Residential building
- Commercial building
- Industrial building

## STANDARDS

- DIN VDE 0100-443/-534
- IEC 61643-11
- EN 61643-11



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## PRODUCT RANGE

### 3 Poles

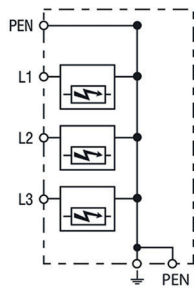
Catalog number	Item number	$U_n$	$U_c$	$I_{imp}$ (10/350)	$I_n$ (8/20)	$U_p$ at $I_n$
<b>TNC (3Ph)</b>						
STMZT12-12K255V-3P	83120225	230/400 [V]	255 V	12.5 kA	20 kA	$\leq 1.5$ kV
STMZT12-7K255V-3P	83120224	230/400 [V]	255 V	7.5 kA	20 kA	$\leq 1.5$ kV

### 4 Poles

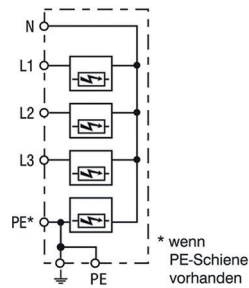
Catalog number	Item number	$U_n$	$U_c$	$I_{imp}$ (10/350)	$I_n$ (8/20)	$U_p$ at $I_n$
<b>TT/TNS (3Ph+N)</b>						
STMZT12-12K255V-4PG	83120227	230/400 [V]	255 V	12.5 kA (L-N) 50 kA (N-PE)	20 kA	$\leq 1.5$ kV
STMZT12-7K255V-4PG	83120226	230/400 [V]	255 V	7.5 kA (L-N) 30 kA (N-PE)	20 kA	$\leq 1.5$ kV

## ELECTRICAL DIAGRAMS

### 3P



### 4PG



## DIMENSIONS

