

# Surge-Trap® Estraibile Tipo 1+2 - 12.5 kA

IEC SPD

DIN RAIL IEC TIPO 1+2 / CLASSE I+II



STP T12 12,5 è la serie di dispositivi combinati Tipo 1+2/Classe I+ II per scaricare le correnti da fulmine e proteggere dalle sovratensioni, secondo la EN/IEC 61643.

È adatto per il primo livello di protezione in quadri di alimentazione principale e in zone con esposizione all'atmosfera, dove di solito le installazioni sono dotate di un sistema esterno di protezione contro i fulmini.

## PRESENTAZIONE DATI TECNICI

Classe	Tipo 1+2 / Classe I+II
$U_n$	60V, 120/208V, 230/400V, 277/480V, 400/690V
$I_{imp}$	12,5 kA
$I_{max}$	50 kA
$I_n (8/20)$	20 kA
Corpo materiale	PA66 CT1; V-0
Tipo sistema	TT, TNS, TNC, IT
Numero poli	1,2,3,4
Format	Estraibile
Temperatura di esercizio	-40 ... 80 ° C
$I_{cc}$	25 kA
Codice IP	20
Fusibile back-up	200 A gG
Sezione cavo rigido	6 ... 25 mm <sup>2</sup>
Sezione cavo rigido	6 ... 35 mm <sup>2</sup>

## CARATTERISTICHE E VANTAGGI

- Corrente impulsiva di fulmine (10/350 $\mu$ s): 12.5kA per fase
- Massima corrente di scarica (8/20 $\mu$ s): 50 kA per fase
- Corrente nominale di scarica (8/20 $\mu$ s): 20kA per fase
- Reti TNS, TNC, TT e IT
- $U_n(L-N/L-L)$ : 60V, 120/208V, 230/400V, 277/480V e 400/690V
- Montaggio su guida DIN, estraibile
- Segnalazione visiva e remota di fine vita
- Chassis reversibile per consentire l'entrata dei cavi dall'alto o dal basso
- Cartucce meccanicamente codificate per evitare eventuali errori nella sostituzione delle cartucce
- Fusibile back-up: 200 A gG

## APPLICAZIONI

- Industria e automazione
- Per installazioni commerciali e residenziali
- Telecomunicazioni e data centers
- Trattamento acque
- Sistemi di misurazione
- Fotovoltaico ed eolico

## OMOLOGAZIONI

- IEC 61643-11
- EN 61643-11



# Surge-Trap® Estraibile Tipo 1+2 - 12.5 kA

## GAMMA PRODOTTI



STPT12-12K275V-1PM

### 1 Polo

Numero di catalogo	Numero riferimento	U <sub>n</sub>	U <sub>c</sub>	I <sub>imp</sub> (10/350)	I <sub>max</sub> (8/20)	I <sub>n</sub> (8/20)	U <sub>p</sub> at I <sub>n</sub>	Remoto	Cartuccia	
									L-N	N-PE
<b>L-N (1Ph)</b>										
STPT12-12K150V-1P	83120100	120 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	No	SP12-12K150V	-
STPT12-12K150V-1PM	83120101	120 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	Si	SP12-12K150V	-
STPT12-12K275V-1P	83120102	230 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	No	SP12-12K275V	-
STPT12-12K275V-1PM	83120103	230 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	Si	SP12-12K275V	-
STPT12-12K320V-1P	83120104	277 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	No	SP12-12K320V	-
STPT12-12K320V-1PM	83120105	277 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	Si	SP12-12K320V	-
STPT12-12K440V-1P	83120106	400 VAC	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	No	SP12-12K440V	-
STPT12-12K440V-1PM	83120107	400 VAC	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	Si	SP12-12K440V	-
<b>N-PE (N)</b>										
STPT12-25K-N	83120108	Neutro	255 V	25 kA	50 kA	25 kA	≤ 1,5 kV	No	-	SP12-25K-N
STPT12-50K-N	83120110	Neutro	255 V	50 kA	50 kA	50 kA	≤ 1,5 kV	No	-	SP12-50K-N

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## GAMMA PRODOTTI



STPT12-12K275V-  
2PGM

### 2 Poli

Numero di catalogo	Numero riferimento	U <sub>n</sub>	U <sub>c</sub>	I <sub>imp</sub> (10/350)	I <sub>max</sub> (8/20)	I <sub>n</sub> (8/20)	U <sub>p</sub> at I <sub>n</sub>	Remoto	Cartuccia	
									L-N	N-PE
<b>TT (1Ph+N)</b>										
STPT12-12K150V-2PG	83120112	120 VAC	150 V	12,5 kA (L-N) 25 kA (N-PE)	50 kA	20 kA	≤ 1 kV (L-N) ≤ 1,5 kV (N-PE)	No	SP12-12K150V	SP12-25K-N
STPT12-12K150V-2PGM	83120113	120 VAC	150 V	12,5 kA (L-N) 25 kA (N-PE)	50 kA	20 kA	≤ 1 kV (L-N) ≤ 1,5 kV (N-PE)	Si	SP12-12K150V	SP12-25K-N
STPT12-12K275V-2PG	83120114	230 VAC	275 V	12,5 kA (L-N) 25 kA (N-PE)	50 kA	20 kA	≤ 1,3 kV (L-N) ≤ 1,5 kV (N-PE)	No	SP12-12K275V	SP12-25K-N
STPT12-12K275V-2PGM	83120115	230 VAC	275 V	12,5 kA (L-N) 25 kA (N-PE)	50 kA	20 kA	≤ 1,3 kV (L-N) ≤ 1,5 kV (N-PE)	Si	SP12-12K275V	SP12-25K-N
STPT12-12K320V-2PG	83120116	277 VAC	320 V	12,5 kA (L-N) 25 kA (N-PE)	50 kA	20 kA	≤ 1,4 kV (L-N) ≤ 1,5 kV (N-PE)	No	SP12-12K320V	SP12-25K-N
STPT12-12K320V-2PGM	83120117	277 VAC	320 V	12,5 kA (L-N) 25 kA (N-PE)	50 kA	20 kA	≤ 1,4 kV (L-N) ≤ 1,5 kV (N-PE)	Si	SP12-12K320V	SP12-25K-N
<b>TNS (1Ph+N)</b>										
STPT12-12K75V-2P	83120126	60 VAC	75 V	12,5 kA	50 kA	20 kA	≤ 0,65 kV	No	SP12-12K75V	-
STPT12-12K75V-2PM	83120127	60 VAC	75 V	12,5 kA	50 kA	20 kA	≤ 0,65 kV	Si	SP12-12K75V	-
STPT12-12K150V-2P	83120118	120 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	No	SP12-12K150V	-
STPT12-12K150V-2PM	83120119	120 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	Si	SP12-12K150V	-
STPT12-12K275V-2P	83120120	230 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	No	SP12-12K275V	-
STPT12-12K275V-2PM	83120121	230 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	Si	SP12-12K275V	-
STPT12-12K320V-2P	83120122	277 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	No	SP12-12K320V	-
STPT12-12K320V-2PM	83120123	277 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	Si	SP12-12K320V	-
<b>IT (1Ph+N) TNS (1Ph+N)</b>										
STPT12-12K440V-2P	83120124	230 VAC (IT) 400 VAC (TNS)	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	No	SP12-12K440V	-
STPT12-12K440V-2PM	83120125	230 VAC (IT) 400 VAC (TNS)	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	Si	SP12-12K440V	-

# Surge-Trap® Estraibile Tipo 1+2 - 12.5 kA

## GAMMA PRODOTTI



STPT12-12K275V-3PM

### 3 Poli

Numero di catalogo	Numero riferimento	U <sub>n</sub>	U <sub>c</sub>	I <sub>imp</sub> (10/350)	I <sub>max</sub> (8/20)	I <sub>n</sub> (8/20)	U <sub>p</sub> at I <sub>n</sub>	Remoto	Cartuccia L-N
<b>TNC (3Ph)</b>									
STPT12-12K150V-3P	83120128	208 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	No	SP12-12K150V
STPT12-12K150V-3PM	83120129	208 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	Si	SP12-12K150V
STPT12-12K275V-3P	83120130	400 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	No	SP12-12K275V
STPT12-12K275V-3PM	83120131	400 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	Si	SP12-12K275V
STPT12-12K320V-3P	83120132	480 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	No	SP12-12K320V
STPT12-12K320V-3PM	83120133	480 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	Si	SP12-12K320V
<b>IT (3Ph) TNC (3Ph)</b>									
STPT12-12K440V-3P	83120134	400 VAC (IT) 690 VAC (TNC)	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	No	SP12-12K440V
STPT12-12K440V-3PM	83120135	400 VAC (IT) 690 VAC (TNC)	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	Si	SP12-12K440V

# Surge-Trap® Estraibile Tipo 1+2 - 12.5 kA

## GAMMA PRODOTTI



STPT12-12K275V-4PM

### 4 Poli

Numero di catalogo	Numero riferimento	U <sub>n</sub>	U <sub>c</sub>	I <sub>imp</sub> (10/350)	I <sub>max</sub> (8/20)	I <sub>n</sub> (8/20)	U <sub>p</sub> at I <sub>n</sub>	Remoto	Cartuccia	
									L-N	N-PE
<b>TT (3Ph+N)</b>										
STPT12-12K150V-4PG	83120136	120/208 VAC	150 V	12,5 kA (L-N) 50 kA (N-PE)	50 kA	20 kA	≤ 1 kV (L-N) ≤ 1,5 kV (N-PE)	No	SP12-12K150V	SP12-50K-N
STPT12-12K150V-4PGM	83120137	120/208 VAC	150 V	12,5 kA (L-N) 50 kA (N-PE)	50 kA	20 kA	≤ 1 kV (L-N) ≤ 1,5 kV (N-PE)	Si	SP12-12K150V	SP12-50K-N
STPT12-12K275V-4PG	83120138	230/400 VAC	275 V	12,5 kA (L-N) 50 kA (N-PE)	50 kA	20 kA	≤ 1,3 kV (L-N) ≤ 1,5 kV (N-PE)	No	SP12-12K275V	SP12-50K-N
STPT12-12K275V-4PGM	83120139	230/400 VAC	275 V	12,5 kA (L-N) 50 kA (N-PE)	50 kA	20 kA	≤ 1,3 kV (L-N) ≤ 1,5 kV (N-PE)	Si	SP12-12K275V	SP12-50K-N
STPT12-12K320V-4PG	83120140	277/480 VAC	320 V	12,5 kA (L-N) 50 kA (N-PE)	50 kA	20 kA	≤ 1,4 kV (L-N) ≤ 1,5 kV (N-PE)	No	SP12-12K320V	SP12-50K-N
STPT12-12K320V-4PGM	83120141	277/480 VAC	320 V	12,5 kA (L-N) 50 kA (N-PE)	50 kA	20 kA	≤ 1,4 kV (L-N) ≤ 1,5 kV (N-PE)	Si	SP12-12K320V	SP12-50K-N
<b>TNS (3Ph+N)</b>										
STPT12-12K150V-4P	83120142	120/208 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	No	SP12-12K150V	-
STPT12-12K150V-4PM	83120143	120/208 VAC	150 V	12,5 kA	50 kA	20 kA	≤ 1 kV	Si	SP12-12K150V	-
STPT12-12K275V-4P	83120144	230/400 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	No	SP12-12K275V	-
STPT12-12K275V-4PM	83120145	230/400 VAC	275 V	12,5 kA	50 kA	20 kA	≤ 1,3 kV	Si	SP12-12K275V	-
STPT12-12K320V-4P	83120146	277/480 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	No	SP12-12K320V	-
STPT12-12K320V-4PM	83120147	277/480 VAC	320 V	12,5 kA	50 kA	20 kA	≤ 1,4 kV	Si	SP12-12K320V	-
<b>IT (3Ph) TNS (3Ph+N)</b>										
STPT12-12K440V-4P	83120148	230/400 VAC (IT) 400/690 VAC (TNS)	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	No	SP12-12K440V	-
STPT12-12K440V-4PM	83120149	230/400 VAC (IT) 400/690 VAC (TNS)	440 V	12,5 kA	50 kA	20 kA	≤ 1,8 kV	Si	SP12-12K440V	-

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## GAMMA PRODOTTI



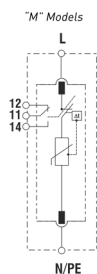
SP12-12K275V

### Ricambio cartuccia

Numero di catalogo	Numero riferimento	$U_n$	$U_c$	$I_{imp} (10/350)$	$I_{max} (8/20)$	$I_n (8/20)$	$U_p \text{ at } I_n$	Remoto
<b>L-N</b>								
SP12-12K150V	83120001	60	75 V	12,5 kA	50 kA	20 kA	$\leq 0,65 \text{ kV}$	No
SP12-12K275V	83120002	120	150 V	12,5 kA	50 kA	20 kA	$\leq 1 \text{ kV}$	No
SP12-12K320V	83120003	230	275 V	12,5 kA	50 kA	20 kA	$\leq 1,3 \text{ kV}$	No
SP12-12K440V	83120004	277	320 V	12,5 kA	50 kA	20 kA	$\leq 1,4 \text{ kV}$	No
SP12-12K75V	83120000	400	440 V	12,5 kA	50 kA	20 kA	$\leq 1,8 \text{ kV}$	No
<b>N-PE</b>								
SP12-25K-N	83120005	Neutro	255 V	25 kA	50 kA	25 kA	$\leq 1,5 \text{ kV}$	No
SP12-50K-N	83120006	Neutro	255 V	50 kA	50 kA	50 kA	$\leq 1,5 \text{ kV}$	No

## SCHEMA ELETTRICO

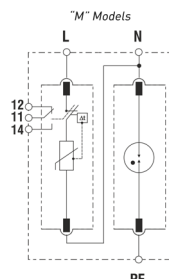
### L-N (1Ph)



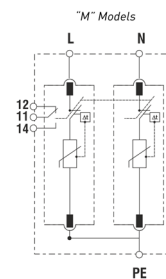
### N-PE (N)



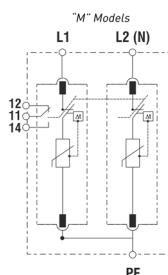
### TT (1Ph+N) - 2PG



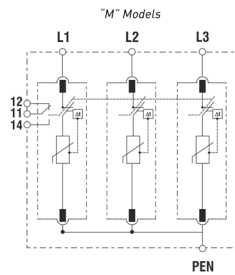
### TNS (1Ph+N) - 2P



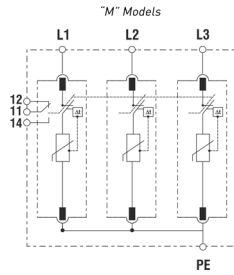
### IT (1Ph+N) - 2P



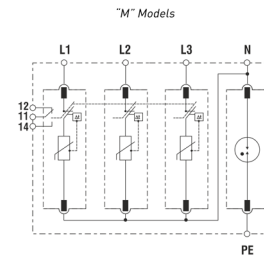
### TNC (3Ph) - 3P



### IT (3Ph) - 3P



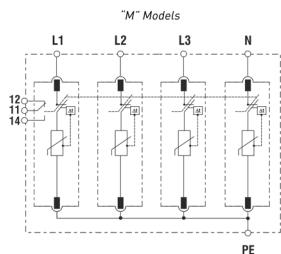
### TT (3Ph+N) - 4PG



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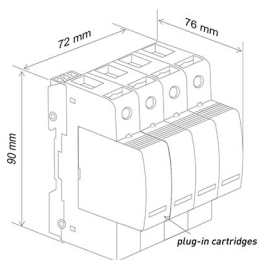
## SCHEMA ELETTRICO

### TNS (3Ph+N) - 4P

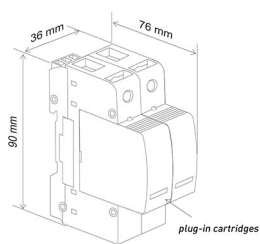


## DIMENSIONI

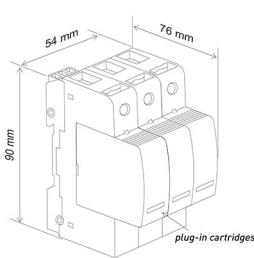
### 1 Polo



### 2 Poli



### 3 Poli



### 4 Poli

