

Surge arresters ETITEC

Surge arrester ETITEC T WENT group B, EN/IEC/VDE: T1, T2/I,II/B+C

Advantages:

- remote signalisation - auxiliary contact (only RC type)
- mounting on DIN rail
- connection up to 35mm²
- high discharge currents
- high degree of protection
- varistor is the protective element
- IEC/EN 61643-11
- RoHS compliant

Description

ETITEC T WENT is surge arrester for indoor installation, internal protection of electrical system. Group WENT surge protection is in accordance with VDE class B, C. This protection corresponds to IEC category I, II. The protection is made on the main distribution box, as the first level of protection against lightning strikes and partial direct or indirect strikes. It's compact design demands small requirement for space for a complete 3-phase protection. It can be used in single or three phase network systems: TT, TNC, TNC-S. In case of permanent arrester damage, thermal protection is activated which signalizes faulty arrester.

*Note: First number of designation 1+0, 2+0, 3+1 etc. indicates the number of varistors. Second one means the following: number 0 indicates there is no gas discharge tube (GDT), number 1 indicates there is. GDT element is required in TT systems.

New!

ETITEC T WENT Iimp=12,5kA

Type	Code No.	I _{imp} (10/350) [kA]	I _n /I _{max} (8/20) [kA]	U _c [V AC]	Weight [g]	Packaging [pcs]
ETITEC T WENT 320/12,5 1+0	002440378	12,5	20/50	320	200	1/7
ETITEC T WENT 320/12,5 2+0	002440380	12,5	20/50	320	230	1/7
ETITEC T WENT 320/12,5 1+1	002440381	12,5	20/50	320	150	1/7
ETITEC T WENT 320/12,5 3+0	002440382	12,5	20/50	320	330	1/5
ETITEC T WENT 320/12,5 4+0	002440383	12,5	20/50	320	590	1/3
ETITEC T WENT 320/12,5 3+1	002440384	12,5	20/50	320	600	1/3
ETITEC T WENT 320/12,5 1+0 RC	002440379	12,5	20/50	320	205	1/7
ETITEC T WENT 320/12,5 2+0 RC	002440385	12,5	20/50	320	230	1/7
ETITEC T WENT 320/12,5 1+1 RC	002440386	12,5	20/50	320	160	1/7
ETITEC T WENT 320/12,5 3+0 RC	002440387	12,5	20/50	320	340	1/5
ETITEC T WENT 320/12,5 4+0 RC	002440388	12,5	20/50	320	600	1/3
ETITEC T WENT 320/12,5 3+1 RC	002440389	12,5	20/50	320	600	1/3

* RC → remote signalisation



ETITEC T WENT 320/12,5 3+1 RC

ETITEC T WENT Iimp=25kA

Type	Code No.	I _{imp} (10/350) [kA]	I _n /I _{max} (8/20) [kA]	U _c [V AC]	Weight [g]	Packaging [pcs]
ETITEC T WENT 320/25 1+0	002440364	25	25/100	320	295	1/7
ETITEC T WENT 320/25 2+0	002440366	25	25/100	320	560	1/3
ETITEC T WENT 320/25 1+1	002440367	25	25/100	320	490	1/3
ETITEC T WENT 320/25 3+0	002440368	25	25/100	320	840	1/3
ETITEC T WENT 320/25 3+1	002440369	25	25/100	320	1050	1/2
ETITEC T WENT 320/25 4+0	002440370	25	25/100	320	1120	1/2
ETITEC T WENT 320/25 1+0 RC	002440365	25	25/100	320	300	1/7
ETITEC T WENT 320/25 2+0 RC	002440371	25	25/100	320	570	1/3
ETITEC T WENT 320/25 1+1 RC	002440372	25	25/100	320	490	1/3
ETITEC T WENT 320/25 3+0 RC	002440373	25	25/100	320	860	1/3
ETITEC T WENT 320/25 3+1 RC	002440374	25	25/100	320	1060	1/2
ETITEC T WENT 320/25 4+0 RC	002440375	25	25/100	320	1140	1/2

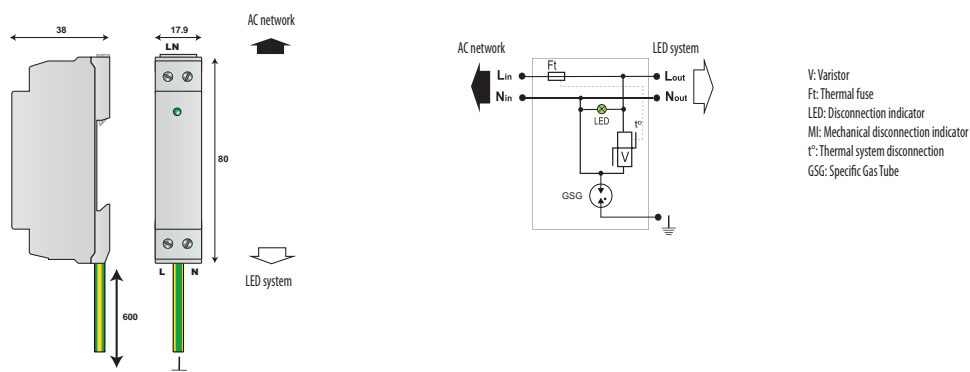
* RC → remote signalisation



ETITEC T WENT 320/25 3+1 RC

ETITEC

Technical data



Surge arrester ETITEC T WENT group B, EN/IEC/VDE: T1, T2 /I,II/B+C

ETITEC T WENT		
Type	320/12,5	320/25
In accordance with	IEC/EN 61643-11	
Category IEC/EN/VDE	I, II/T1, T2 / B+C	
Max. continuous operating voltage (AC) U _c	320 V	
Nominal AC voltage U _o	230V 50-60 Hz	
TOV immunity U _T (AC)	334 V/5s withstand 438 V/120 min safe failure	
Impulse current (10/350) I _{imp}	12,5 kA	25 kA
Nominal discharge current (8/20) I _n	20 kA	25 kA
Max. discharge current (8/20) I _{max}	50 kA	100 kA
Protection level U _p - at I _n	<1,5 kV	
Follow current I _f	100 A _{RMS}	
Response time t _a	< 25 ns	
Residual current I _{pe} at U _{ref}	< 0,3 mA	
Current source generator	1 mA	
U _n min (MOV)	459 V	459
U _n max (MOV)	561 V	561 V
Voltage step generator*	100 V/s	100 V/s
U _n min (GDT)*	480 V	480 V
U _n max (GDT)*	720 V	720 V
Thermal decoupler	✓	
Torque	3,0 Nm	
Back-up fuse (if mains > 160A)	250 A gG	
Short-circuit current rating I _{SCCR}	50 kA / 50 Hz	
Temperature range	- 40°C ...+70°C	
Cross-section of connection wire	min. 6mm ² ; max. solid, rigid stranded 35mm ² ; flexible 25mm ²	
Mounting	indoors on top hat fixing rail 35 mm (EN 60715)	
Degree of protection	IP 20	
Casing material	PA	
Dimensions	2 TE ... 8 TE	
Indication of disconnecter operation		
Permissible humidity	5% - 95%	
Additional data for ETITEC T WENT-RC		
Remote signalisation (RC)	✓	
Switching capability (RC)	AC: 250V/0,5A; DC:125V/0,2A	
Cross-section of connection wire (RC)	max. 1.5 mm ²	
Torque (RC)	0,25 Nm	

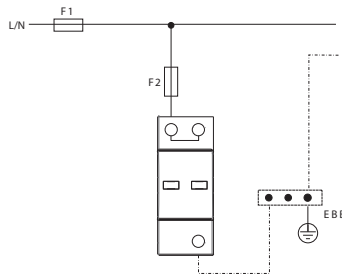
Type of network and nr. of SPD poles	
Network	Nr of poles (SPD configuration)
TNC 1 phase	1+0
TNC 3 phase	3+0
TNS 1 phase	2+0 / 1+1
TNS 3 phase	4+0 / 3+1
TT 1 phase	1+1
TT 3 phase	3+1

At TNC, TNS, TT systems with U_n=230V, recommended U_c value of SPD is 275V.

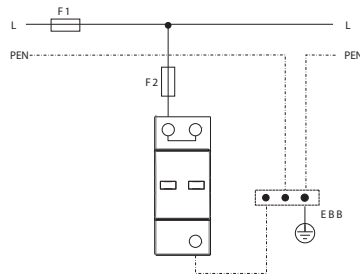
Technical data

ETITECT WENT $I_{imp}=12,5 \text{ kA}$

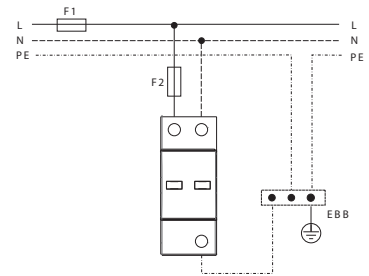
TN-S Network - Single-phase, 1+0 (T-connection)



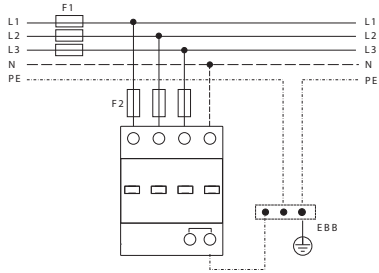
TN-C Network - Single-phase, 1+0 (T-connection)



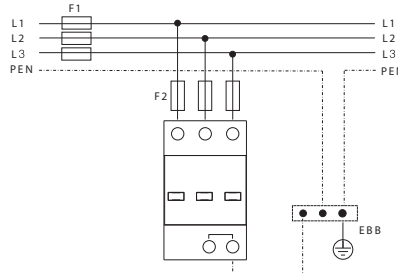
TN-S Network - Single-phase, 2+0 (T-connection)



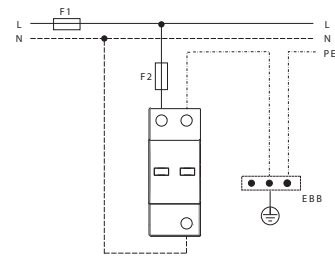
TN-S Network - Three-phase, 4+0 (T-connection)



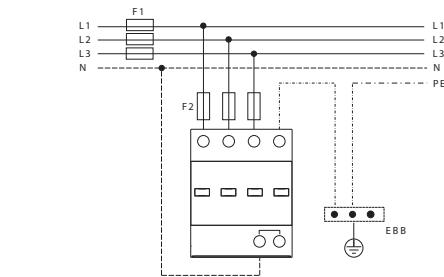
TN-C Network - Three-phase 3+0 (T-connection)



TT Network - Single-phase 1+1 (T-connection)



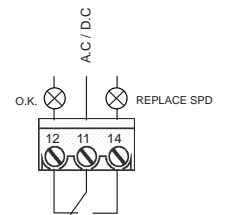
TT Network - Three-phase 3+1 (T-connection)



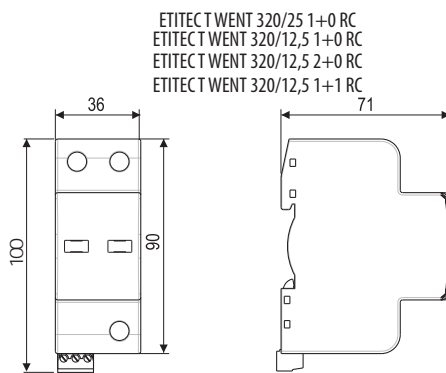
Remote signalization connection / Back-up fuse

Back-up fuse	
$F1 > 250 \text{ A gG}$	$\rightarrow F2 = 250 \text{ A gG}$
$F1 \leq 250 \text{ A gG}$	$\rightarrow F2 = \text{not needed}$

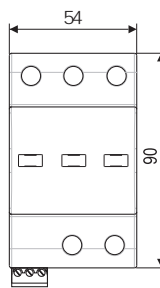
A.C.	250V / 0.5A
D.C.	250V / 0.1A
	125V / 0.2A
	75V / 0.5A



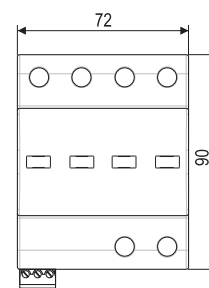
Dimensions



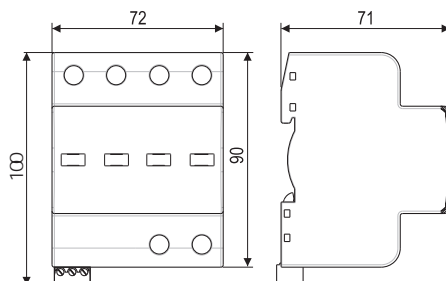
ETITECT WENT 320/12,5 3+0 RC



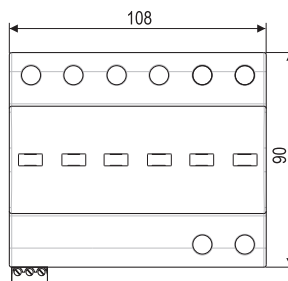
ETITECT WENT 320/12,5 4+0 RC
ETITECT WENT 320/12,5 3+1 RC



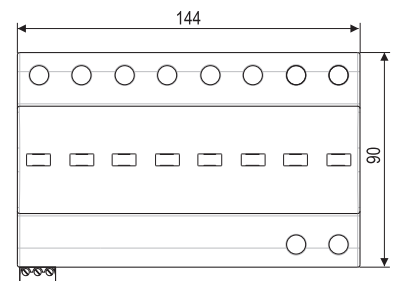
ETITECT WENT 320/25 2+0 RC
ETITECT WENT 320/25 1+1 RC



ETITECT WENT 320/25 3+0 RC



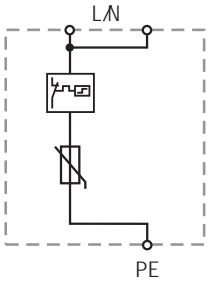
ETITECT WENT 320/25 4+0 RC
ETITECT WENT 320/25 3+1 RC



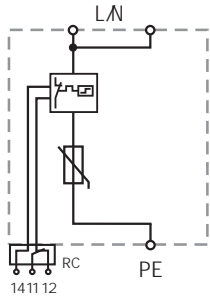
Connection diagram

ETITECT WENT $I_{imp}=12,5$ kA

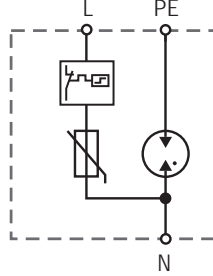
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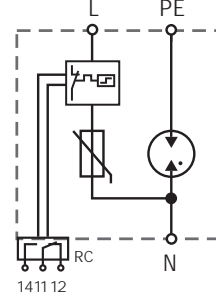
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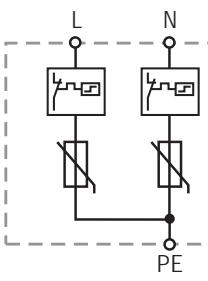
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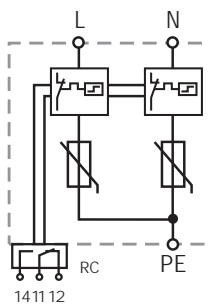
ETITECT WENT 320/12,5 1+1 RC



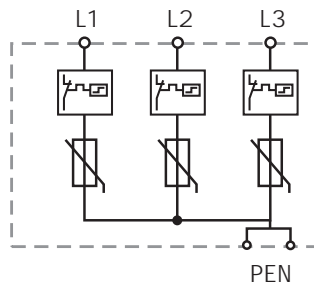
ETITECT WENT 320/12,5 2+0



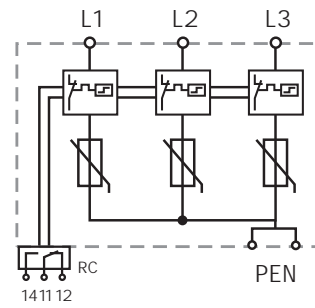
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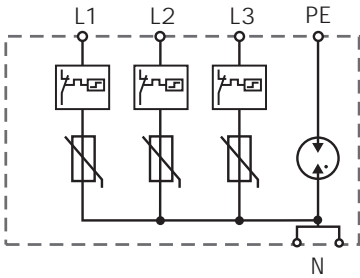
ETITECT WENT 320/12,5 3+0



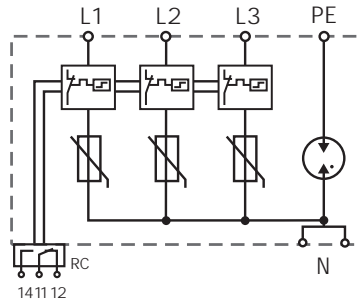
ETITECT WENT 320/12,5 3+0 RC



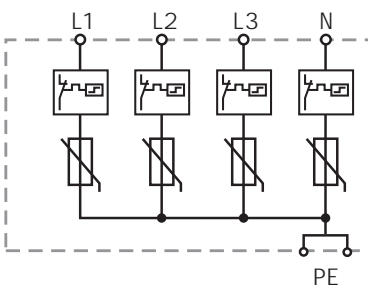
ETITECT WENT 320/12,5 3+1



ETITECT WENT 320/12,5 3+1 RC



ETITECT WENT 320/12,5 4+0



ETITECT WENT 320/12,5 4+0 RC

