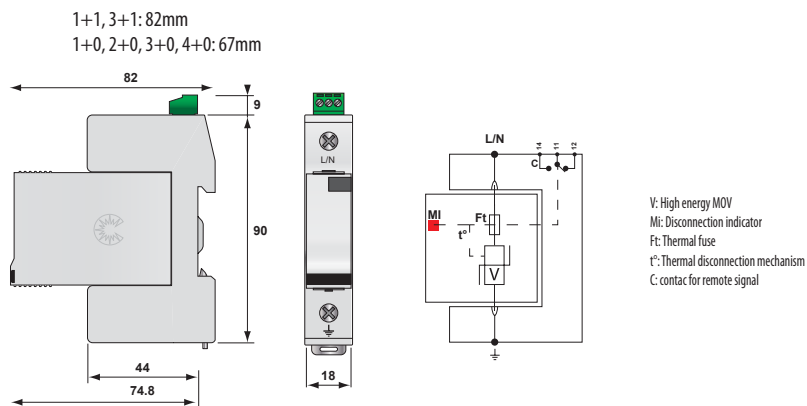


Surge arrester ETITEC V T12

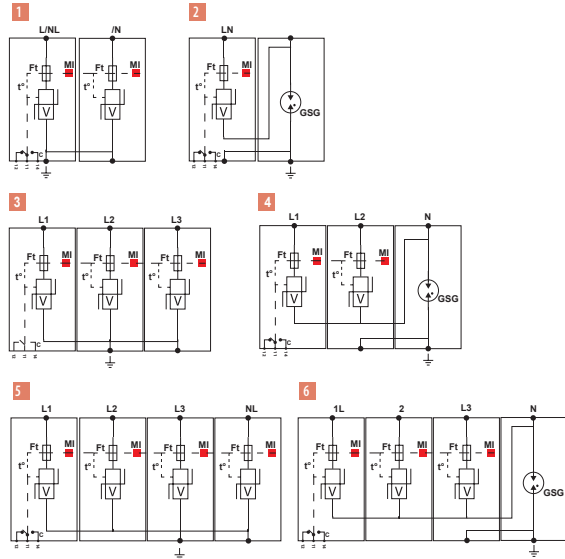
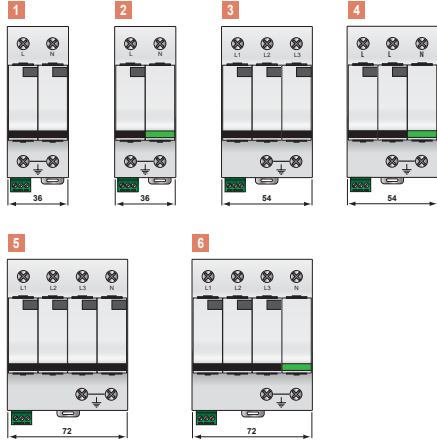
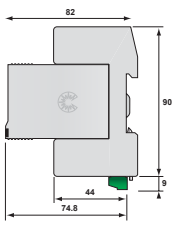
EN/IEC/VDE: T1,T2 /I,II/B,C

ETITEC V T limp=12,5kA			
Type		ETITEC V T12 280	ETITEC V T12 400
Description		1+2 AC surge protector - 1-pole	
Network		230/400	230/400 V
Max. AC operating voltage	Uc	280 VAC	440 VAC
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT	335 Vac withstand	580 Vac withstand
Temporary Over Voltage (TOV) Characteristics -120 mn	UT	440 Vac disconnection	770 Vac disconnection
Residual current - Leakage current at Uc	Ipe	< 1 mA	< 1 mA
Follow current	If	x	x
Nominal discharge current - 15 x 8/20 μs impulses	In	20 kA	20 kA
Max. discharge current -max. withstand @ 8/20 μs by pole	I _{max}	50 kA	50 kA
Impulse current by pole - max. withstand 10/350μs	I _{imp}	12,5 kA	12,5 kA
Specific energy by pole	W/R	40 kJ/ohm	40 kJ/ohm
Protection level	U _p	1,3 kV	1,7 kV
Admissible short-circuit current	I _{sc}	25000 A	25000 A
Associated disconnectors			
Thermal disconnector		internal	
Fuses		Fuses Type gG - 125 A	
Installation ground fault breaker		Type "S" or delayed	
Mechanical characteristics			
Dimensions		see diagram	
Connection to Network		By screw terminals: 2,5-25 mm ² / by bus	
Disconnection indicator		1 mechanical indicator	
Remote signaling of disconnection		output on changeover contact	
Mounting		Symmetrical rail 35 mm (EN60715)	
Operating temperature		-40 ... +85°C	
Protection rating		IP20	
Housing material		Thermoplastic UL94-V0	
Standards compliance		IEC 61643-11 / EN 61643-11	

Dimensions



1+1, 3+1: 82mm
 1+0, 2+0, 3+0, 4+0: 67mm



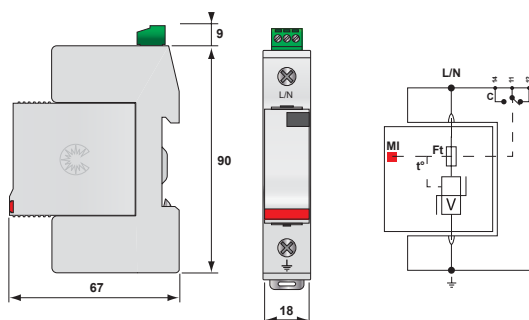
V: High energy MOV
 GSG: Specific gas tube
 MI: Disconnection indicator
 Ft: Thermal fuse
 t*: Thermal disconnection mechanism
 C: Contact for remote signal

Surge arrester ETITEC V T2

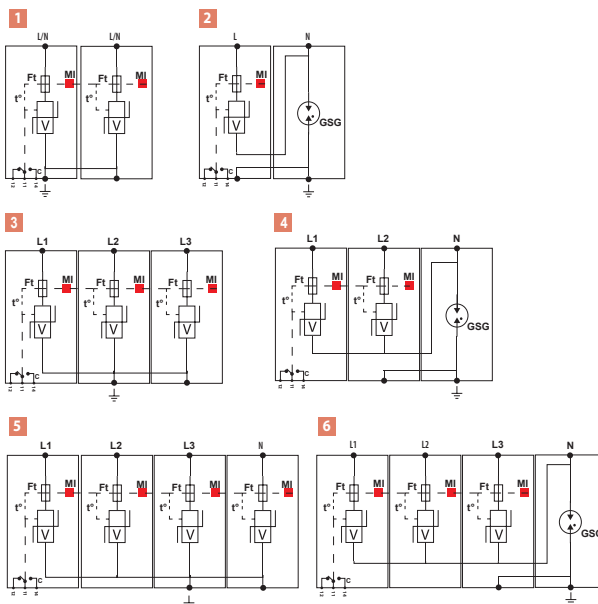
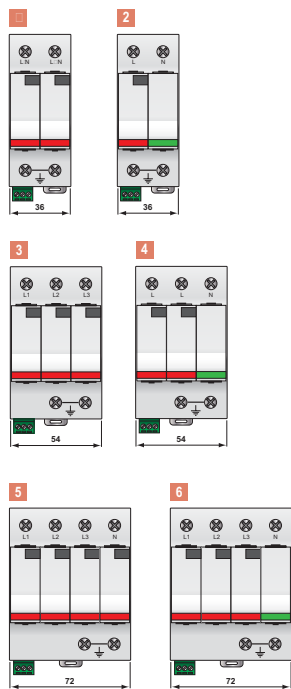
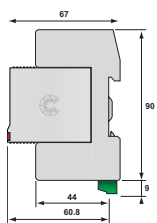
EN/IEC/VDE: T2/II/C

ETITEC V T2			
Type		ETITEC V T2 255	ETITEC V T2 440
Description		Type 2 AC surge protector - one-phase - pluggable	
Network		230/400 V	230/400 V
Max. AC operating voltage	Uc	255 VAC	440 VAC
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT	335 Vac withstand	580 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	UT	440 Vac disconnection	770 Vac disconnection
Residual current - Leakage current at Uc	Ipe	< 1 mA	< 1 mA
Follow current	If	x	x
Nominal discharge current - 15 x 8/20 μ s impulses	In	20 kA	20 kA
Max. discharge current -max. withstand @ 8/20 μ s by pole	I _{max}	40 kA	40 kA
Protection level	Up	1,25 kV	1,8 kV
Admissible short-circuit current	I _{scrr}	25000 A	25000 A
Associated disconnectors			
Thermal disconnector		internal	
Fuses		Fuses Type gG - 50 A	
Installation ground fault breaker		Type "S" or delayed	
Mechanical characteristics			
Dimensions		see diagram	
Connection to Network		By screw terminals: 2,5-25 mm ² / by bus	
Disconnection indicator		1 mechanical indicator	
Remote signaling of disconnection		output on changeover contact	
Mounting		Symmetrical rail 35 mm (EN60715)	
Operating temperature		-40 ... +85°C	
Protection rating		IP20	
Housing material		Thermoplastic UL94-V0	
Standards compliance		IEC 61643-11 / EN 61643-11	

Dimensions



V: High-energy varistor
 Ft: Thermal fuse
 C: Remote signaling contact
 t*: Thermal disconnection system
 Mi: Disconnection indicator



V: High-energy varistor
 GSG: Specific gas tube
 Ft: Thermal fuse
 C: Remote signaling contact
 t: Thermal disconnection system
 MI: Disconnection indicator

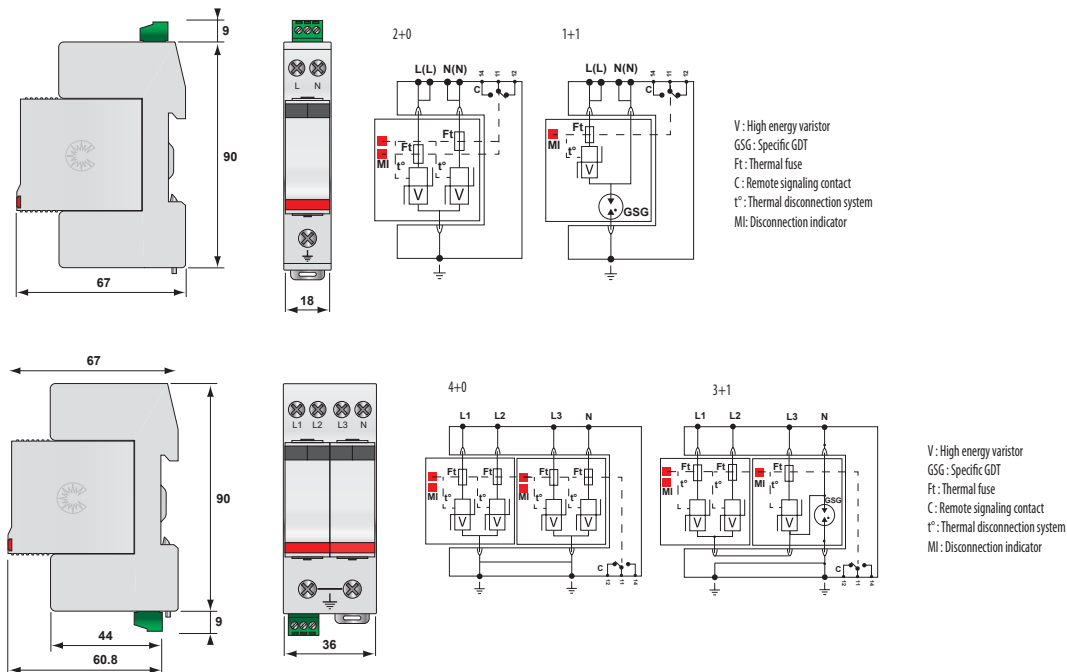
Technical data

Type 2 multipole SPDs

ETITEC V 2T2

Description	Compact 1-phase Type 2 Surge Protector - 230 V - Pluggable			Compact 3-phase+N Type 2 surge protector - 230/400 V - Pluggable		
	230 V 1-p	230 V 1-p	230 V 1-p	230/400 V 3-phase	230/400 V 3-phase	230/400 V 3-phase
Network	L/PE & N/PE	L/PE & N/PE	L/N & N/PE	L/PE & N/PE	L/PE & N/PE	L/N & N/PE
Connection mode	IT	TN	TT-TN	IT	TN	TT-TN
Max. AC operating voltage	U_c 440 VAC	255 VAC	255 VAC	440 VAC	255 VAC	255 VAC
Temporary Over Voltage (TOV) Characteristics - 5 sec.	U_T 580 Vac withstand	335 Vac withstand	335 Vac withstand	580 Vac withstand	335 Vac withstand	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	U_T 770 Vac disconnection	440 Vac disconnection	440 Vac disconnection	770 Vac disconnection	440 Vac disconnection	440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	U_T -	-	1200 V/300A/200 ms withstand	-	-	1200 V/300A/200 ms withstand
Residual current - Leakage current at U_c	I_{pe} < 1 mA	< 1 mA	x	< 1 mA	< 1 mA	x
Max. Load current (if connection serie)	I_L 20 A	20 A	20 A	-	-	-
Nominal discharge current - 15 x 8/20 μ s impulses	I_n 20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Max. discharge current -max. withstand @ 8/20 μ s by pole	I_{max} 40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
Protection level CM/DM* @ln (8/20 μ s) and @ 6kV (1.2/50 μ s)	U_p 1,8 kV	1,25 kV	1,5/1,25 kV	1,8 kV	1,25 kV	1,5/1,25 kV
Admissible short-circuit current	I_{scr} 10000 A	10000 A	10000 A	10000	10000 A	10000 A
Associated disconnectors						
Thermal disconnector	internal					
Fuses	Fuses Type gG - 50 A					
Installation ground fault breaker	Type "S" or delayed					
Mechanical characteristics						
Dimensions	see diagram					
Connection to Network	by screw terminals: 1,5-10mm ² (L/N) or 2,5-25mm ² (PE)					
Disconnection indicator	2 mechanical indicators					
Remote signaling of disconnection	output on changeover contact					
Mounting	Symmetrical rail 35 mm (EN60715)					
Operating temperature	-40 ... +85°C					
Protection rating	IP20					
Housing material	Thermoplastic UL94-V0					
Standards compliance	IEC 61643-11 / EN 61643-11					

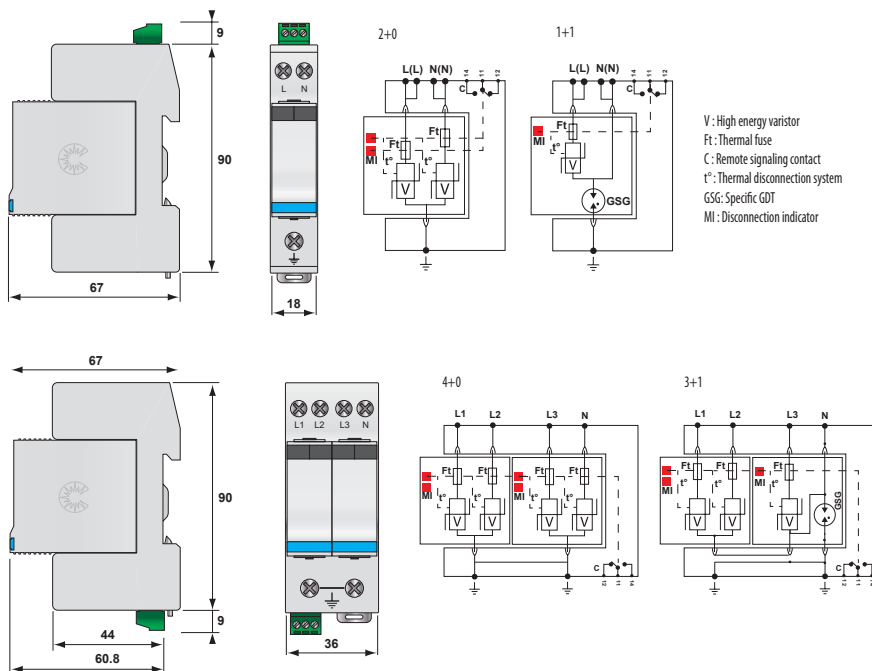
Dimensions



Type 3 (weak type2) multipole SPDs

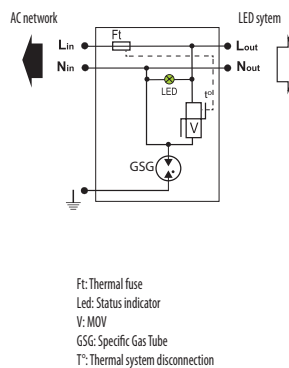
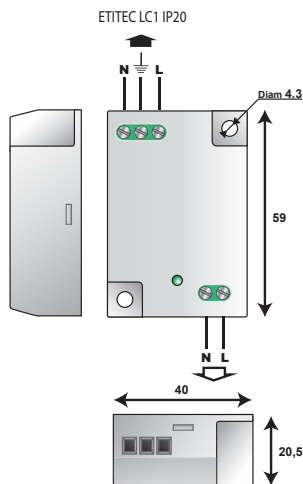
ETITEC V 2T3						
Description	Compact 1-phase Type 2 (or 3) surge protector - 230 V - Pluggable			Compact 3-phase+N Type 2 surge protector - 230/400 V - Pluggable		
Network	230 V single phase	230 V single phase	230 V single phase	230/400 V 3-phase	230/400 V 3-phase	230/400 V 3-phase
Connection mode	L/PE and N/PE	L/PE and N/PE	L/N and N/PE	L/N and N/PE	L/N and N/PE	L/N and N/PE
AC system	IT	TN	TT-TN	IT	TN	TT-TN
Max. AC operating voltage	U_c 440 VAC	255 VAC	255 VAC	440 VAC	255 VAC	255 VAC
Temporary Over Voltage (TOV) Characteristics - 5 sec.	U_t 580 Vac withstand	335 Vac withstand	335 Vac withstand	580 Vac withstand	335 Vac withstand	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	U_t 770 Vac disconnection	440 Vac disconnection	440 Vac disconnection	770 Vac disconnection	440 Vac disconnection	440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	U_t -	-	1200 V/300A/200 ms withstand	-	-	1200 V/300A/200 ms withstand
Residual current - Leakage current at U_c	I_{pe} < 1 mA	< 1 mA	x	< 1 mA	< 1 mA	x
Max. Load current (if connection serie)	I_L 20 A	20 A	20 A	-	-	-
Nominal discharge current - 15 x 8/20 μ s impulses	I_n 5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Max. discharge current - max. withstand @ 8/20 μ s by pole	I_{max} 15 kA	15 kA	15 kA	15 kA	15 kA	15 kA
Withstand on overvoltages IEEE C62.41.1	U_{oc} 10 kV	10 kV	10 kV	10 kV	10 kV	10 kV
Protection level CM/DM* @ln (8/20 μ s) and @6kV (1.2/50 μ s)	U_p 1.3 kV	0.9 kV	1.5/0.9 kV	1.3 kV	0.9 kV	1.5/0.9 kV
Admissible short-circuit current	I_{scsr} 10000 A	10000 A	10000 A	10000 A	10000 A	10000 A
Associated disconnectors						
Thermal disconnector	internal					
Fuses	Fuses Type gG - 20 A					
Installation ground fault breaker	Type "S" or delayed					
Mechanical characteristics						
Dimensions	see diagram					
Connection to Network	by screw terminals: 1,5-10mm ² (L/N) or 2,5-25mm ² (PE)					
Disconnection indicator	4 mechanical indicators					
Remote signaling of disconnection	output on changeover contact					
Mounting	Symmetrical rail 35 mm (EN60715)					
Operating temperature	-40 ... +85°C					
Protection rating	IP20					
Housing material	Thermoplastic UL94-V0					
Standards compliance	IEC 61643-11 / EN 61643-11					

Dimensions



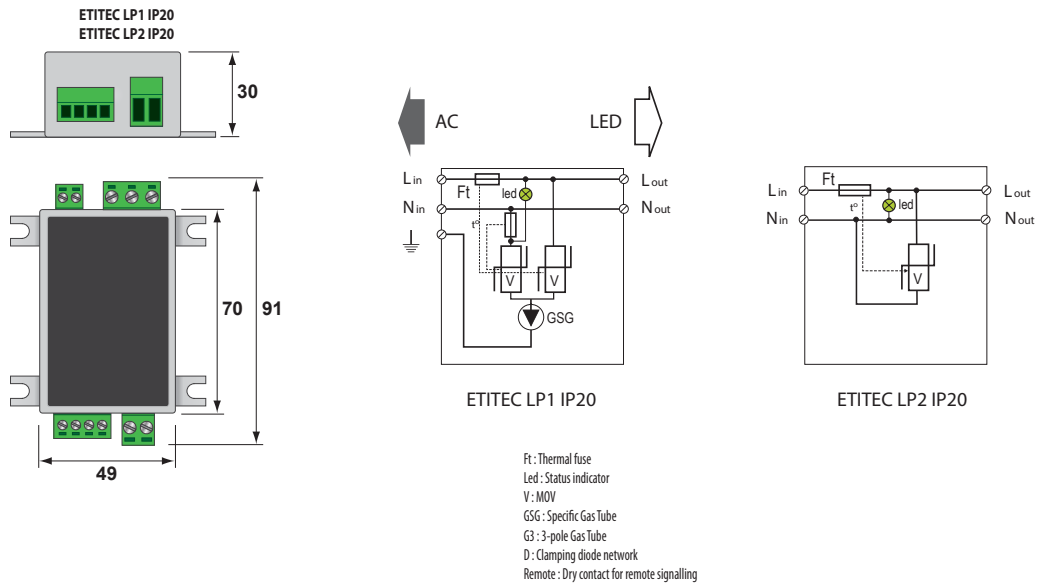
LED lighting protection

ETITEC LC1 IP20		
Description		Surge protectors for LED lighting system Class 1
Network		220-240 V single phase
AC system		TT/TN
Protection mode(s)		CM/DM
Max. AC operating voltage	U_c	320 VAC
Max. Load current	I_L	5 A
Residual current - Leakage current at U_c	I_{pe}	x
Temporary Over Voltage (TOV) Characteristics - 5 sec.	U_T	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	U_T	440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	U_T	1200 V/300A/200 ms disconnection
Nominal discharge current - 15 x 8/20 μ s impulses	I_n	5 kA
Max. discharge current - max. withstand @ 8/20 μ s by pole	I_{max}	10 kA
Total lightning current - max. total withstand @ 8/20 μ s	I_{total}	20 kA
Withstand on Combination waveform - Class III test	U_{oc}	10 kV/5 kA
Withstand on overvoltages IEEE C62.41.1		10 kV/10 kA
Protection level CM/DM @In (8/20 μ s) and @ 6kV (1.2/50 μ s)	U_p	1.5 kV/ 1.5 kV
Admissible short-circuit current	I_{scrr}	10000 A
Admissible short-circuit current		25000 A
Associated disconnectors		
Thermal disconnector		internal
Installation ground fault breaker		Type "S" or delayed
Mechanical characteristics		
Dimensions		see diagram
Connection to Network		Screw (2.5 mm ² max) or Spring (1.5 mm ² max) contact terminal
Voltage/operating indicator		Green Led ON
Disconnection indicator		Disconnection
Failsafe behavior		Led green OFF and AC network cut-off
Remote signaling of disconnection		x
Mounting		on plate
Operating temperature		-40 ... +85°C
Protection rating		IP20
Housing material		Thermoplastic UL94-V0
Standards compliance		EN 61643-11 / IEC 61643-11

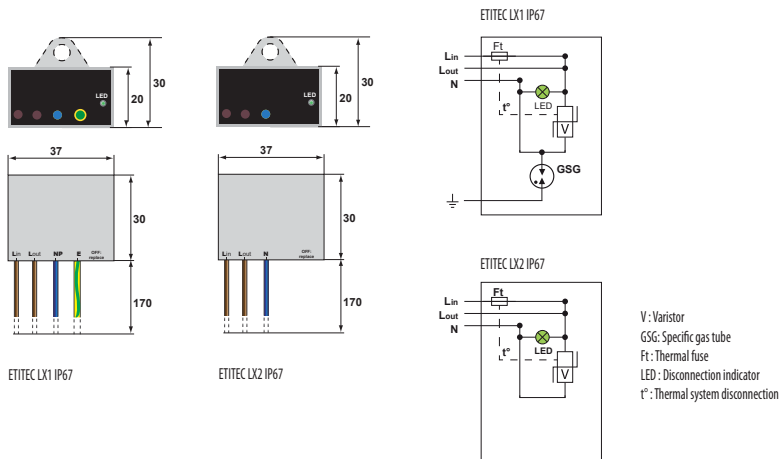


ETITEC LP		
Type	ETITEC LP1 IP20	ETITEC LP2 IP20
Network	220-240 V single phase	
Protection mode(s)	CM/DM	
Max. AC operating voltage	305 VAC	
Max. Load current	2,5 A	
Residual current - Leakage current at Uc	x	
Nominal discharge current - 15 x 8/20 μ s impulses	5 kA	
Max. discharge current -max. withstand @ 8/20 μ s by pole	10 kA	
Total lightning current - max. total withstand @ 8/20 μ s	20 kA	
Withstand on Combination waveform - Class III test	10 kV/5 kA	
Withstand on overvoltages IEEE C62.41.1	10 kV/10 kA	
Protection level CM/DM @In (8/20 μ s) and @ 6kV (1.2/50 μ s)	1.5 kV/ 1.5 kV	
Admissible short-circuit current	10000 A	
Mechanical characteristics		
Connection to Network	Screw or spring terminal - 1.5 mm ² max	
Voltage/operating indicator	Green Led ON	
Failsafe behavior	Led green OFF and AC network cut-off	
Disconnection indicator	Led green OFF and AC network cut-off or remote signal (option)	
Remote signaling of disconnection	Option	
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.4	
Description	Surge protector for LED lighting system Class 1	Surge protector for LED lighting system Class 2
AC voltage specifications		
Description	220-240 V single phase	220-240 V single phase
AC system	TT-TN	TT-TN
Protection mode(s)	CM/DM	DM
Max. AC operating voltage	305 Vac	305 Vac
Max. Load current	2,5 A	2,5 A
Residual current - Leakage current at Uc	x	x
Temporary Over Voltage (TOV) Characteristics - 5 sec.	335 Vac withstand	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	440 Vac disconnection	440 Vac disconnection
Nominal discharge current - 15 x 8/20 μ s impulses	5 kA	5 kA
Max. discharge current -max. withstand @ 8/20 μ s by pole	10 kA	10 kA
Total lightning current - max. total withstand @ 8/20 μ s	20 kA	20 kA
Withstand on Combination waveform - Class III test	10 kV/5 kA	10 kV/5 kA
Withstand on overvoltages IEEE C62.41.1	10 kV/10 kA	10 kV/10 kA
Protection level CM/DM @In (8/20 μ s) and @ 6kV (1.2/50 μ s)	1.5 kV/ 1.5 kV	1.5 kV
Admissible short-circuit current	10000 A	10000 A
Connection to Network	screw 1.5mm ² max	screw 1.5mm ² max
Voltage/operating indicator	Green Led ON	Green Led ON
Failsafe behavior	Disconnection from AC line	Disconnection from AC line
Disconnection indicator	Green Led OFF and AC line cut-off	Green Led OFF and AC line cut-off
Remote signaling of disconnection	none	yes : output on contact NO
Associated disconnectors		
Thermal disconnector	internal	internal
Installation ground fault breaker	Type "S" or delayed	Type "S" or delayed
Mechanical characteristics		
Dimensions	see diagram	see diagram
Mounting	on plate	on plate
Operating temperature	-40/+85°C	-40/+85°C
Protection rating	IP65	IP20
Housing material	Thermoplastic UL94-V0	Thermoplastic UL94-V0
Standards compliance	IEC 61643-11 / EN 61643-11	

Technical data



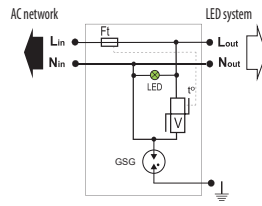
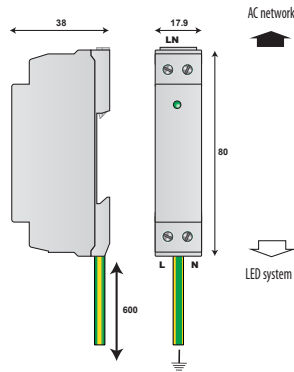
ETITEC LX		
Type	ETITEC LX1 IP67	ETITEC LX2 IP67
Description	Compact Type 2 +3 hard-wired surge protector	
Application (Classe)	I	II
Network	230-277 V single phase	230-277 V single phase
AC system	TT/TN	TT/TN
Protection mode(s)	CM/DM	DM
Max. AC operating voltage	320 VAC	320 VAC
Max. Load current	10A	10A
Temporary Over Voltage (TOV) Characteristics - 5 sec.	335 Vac withstand	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	440 Vac disconnection	440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	1200 V/300A/200 ms disconnection	x
Nominal discharge current - 15 x 8/20 μ s impulses	5 kA	5 kA
Max. discharge current - max. withstand @ 8/20 μ s by pole	10 kA	10 kA
Total max. discharge current - max. total withstand @ 8/20 μ s	20 kA	NA
Withstand on Combination waveform - Class III test	10 kV	10 kV
Withstand on overvoltages IEEE C62.41.1	10 kV/10 kA	10 kV/10 kA
Protection level CM/DM @In (8/20 μ s) and @ 6kV (1.2/50 μ s)	1.5 kV/1.5 kV	1.5 kV
Admissible short-circuit current	10000 A	10000 A
Associated disconnectors		
Thermal disconnector	internal	
Installation ground fault breaker	Type "S" or delayed	
Mechanical characteristics		
Dimensions	see diagram	
Connection to Network	by wires :1.5 mm ² (L/N) & 2.5 mm ² (PE)	by wires :1.5 mm ² (L/N)
Voltage/operating indicator	Green Led ON	
Disconnection indicator	Disconnection	
Failsafe behavior	Led green OFF and AC network cut-off	
Remote signaling of disconnection	x	
Mounting	wall or plate	
Operating temperature	-40/+85°C	
Protection rating	IP67	
Housing material	Thermoplastic UL94-V0	
Standards compliance	EN 61643-11 / IEC 61643-11	



ETITEC L1 DIN

ETITEC L1 DIN	
Description	Surge protectors for LED lighting system Class 1
Network	220-240 V single phase
AC system	TT/TN
Protection mode(s)	CM/DM
Max. AC operating voltage	320 VAC
Max. Load current	10A
Residual current - Leakage current at Uc	x
Temporary Over Voltage (TOV) Characteristics - 5 sec.	335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	1200 V/300A/200 ms disconnection
Nominal discharge current - 15 x 8/20 μs impulses	5 kA
Max. discharge current - max. withstand @ 8/20 μs by pole	10 kA
Total lightning current - max. total withstand @ 8/20 μs	20 kA
Withstand on Combination waveform - Class III test	10 kV / 5 kA
Withstand on overvoltages IEEE C62.41.1	10 kV/10 kA
Protection level CM/DM @In (8/20μs) and @ 6kV (1.2/50μs)	1.5 kV/ 1.5 kV
Admissible short-circuit current	10000 A
Associated disconnectors	
Thermal disconnector	internal
Installation ground fault breaker	Type «S» or delayed
Mechanical characteristics	
Dimensions	see diagram
Connection to Network	Screw terminal 2.5 mm ² max., Earthing conductor 2 mm ² - length 60 cm
Voltage/operating indicator	Led green ON
Disconnection indicator	Disconnection and AC line cut-off
Failsafe behavior	Led green OFF and AC network cut-off
Remote signaling of disconnection	x
Mounting	Symmetrical rail 35mm (EN60715)
Operating temperature	-40 ... +85°C
Protection rating	IP20
Housing material	Thermoplastic UL94-V0
Standards compliance	EN 61643-11 / IEC 61643-11

Technical data



V: Varistor
 Ft: Thermal fuse
 LED: Disconnection indicator
 MI: Mechanical disconnection indicator
 t*: Thermal system disconnection
 GSG: Specific Gas Tube

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	230 V 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	

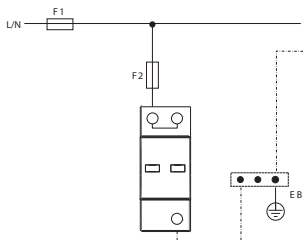
Type of network and nr. of SPD poles	
Network	Nr of poles (SPD configuration)
TNC 1 phase	1+0
TNC 3 phase	3+0
TNS 1 phase	2+0 / 1+1
TNS 3 phase	4+0 / 3+1
TT 1 phase	1+1
TT 3 phase	3+1

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

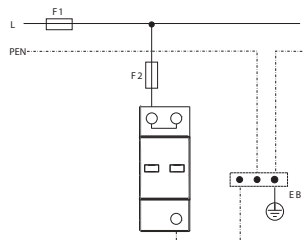
Protection configurations for various power systems

ETITEC T WENT limp=25 kA

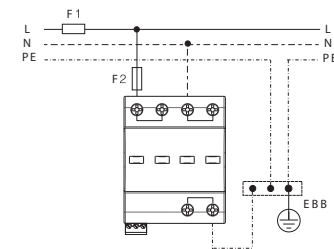
TN-S Network - Single-phase, 1+0 (T-connection)



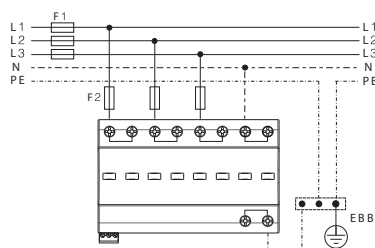
TN-C Network - Single-phase, 1+0 (T-connection)



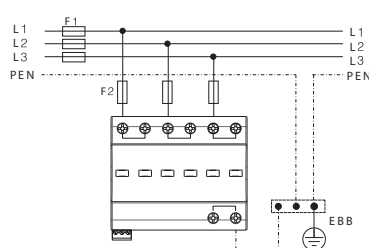
TN-S Network - Single-phase, 2+0 (T-connection)



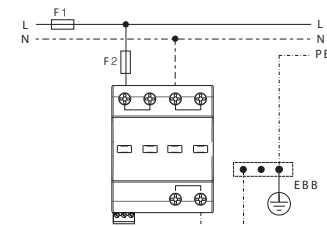
TN-S Network - Three-phase, 4+0 (T-connection)



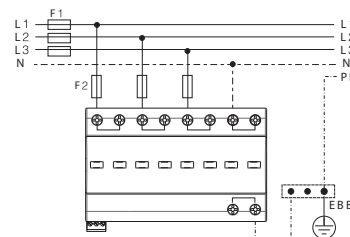
TN-C Network - Three-phase, 3+0 (T-connection)



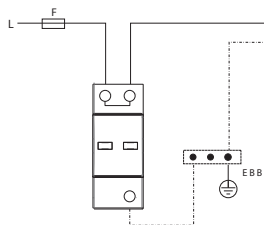
TT Network - Single-phase, 1+1 (T-connection)



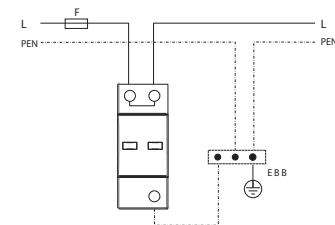
TT Network - Three-phase, 3+1 (T-connection)



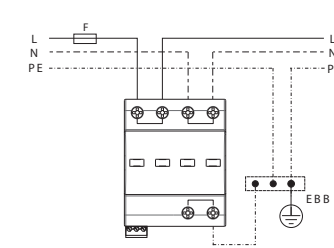
TN-S Network - Single-phase, 1+0 (V-connection)



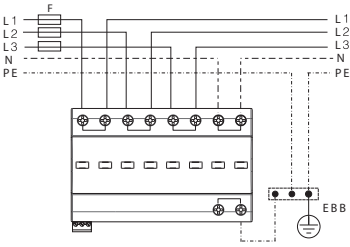
TN-C Network - Single-phase, 1+0 (V-connection)



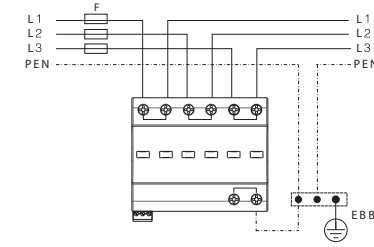
TN-S Network - Single-phase, 2+0 (V-connection)



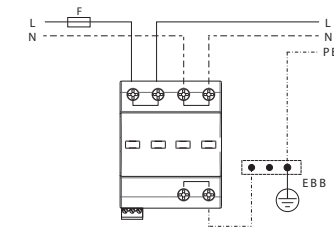
TN-S Network - Three-phase, 4+0 (V-connection)



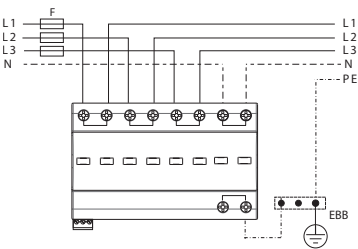
TN-C Network - Three-phase, 3+0 (V-connection)



TT Network - Single-phase, 1+1 (V-connection)



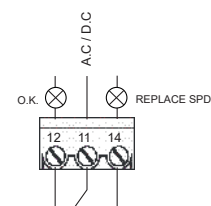
TT Network - Three-phase, 3+1 (V-connection)



Remote signalization connection / Back-up fuse

Back-up fuse	
F1 > 250 A gG	→ F2 = 250 A gG
F1 ≤ 250 A gG	→ F2 = not needed
F ≤ 100 A gG	

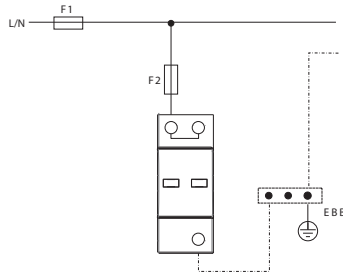
A.C.	250V / 0.5A
D.C.	250V / 0.1A
	125V / 0.2A
	75V / 0.5A



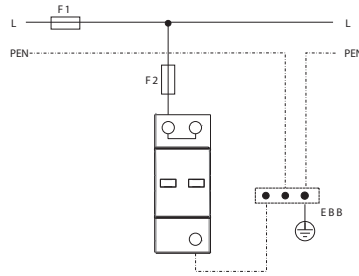
Technical data

ETITECT WENT limp=12,5 kA

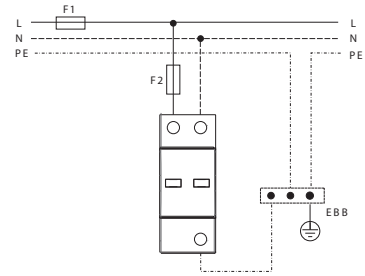
TN-S Network - Single-phase, 1+0 (T-connection)



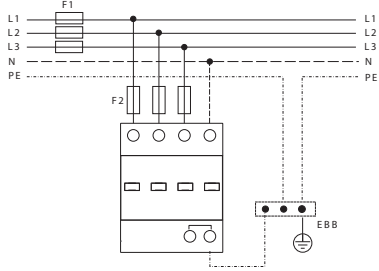
TN-C Network - Single-phase, 1+0 (T-connection)



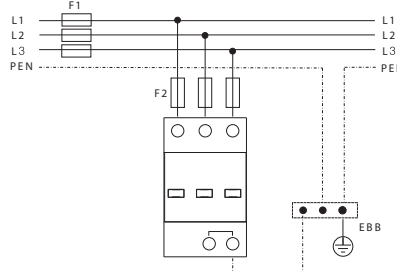
TN-S Network - Single-phase, 2+0 (T-connection)



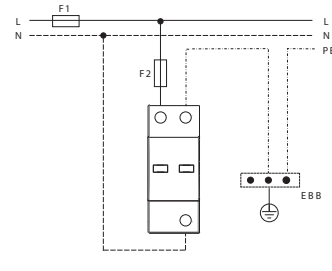
TN-S Network - Three-phase, 4+0 (T-connection)



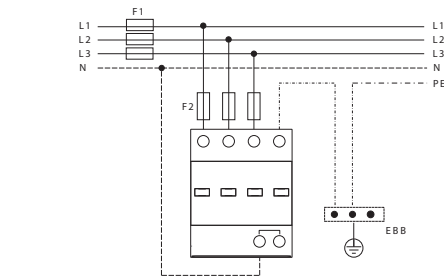
TN-C Network - Three-phase 3+0 (T-connection)



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



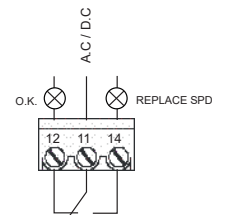
TT Network - Three-phase 3+1 (T-connection)



Remote signalization connection / Back-up fuse

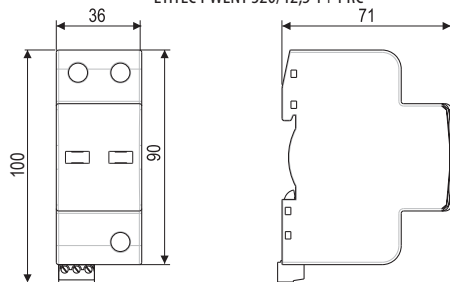
Back-up fuse	
F1 > 250 A gG	→ F2 = 250 A gG
F1 ≤ 250 A gG	→ F2 = not needed

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

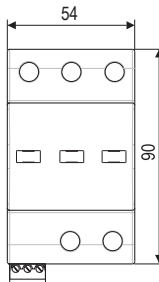


Dimensions

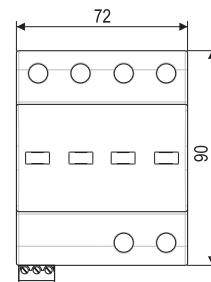
ETITECT WENT 320/25 1+0 RC
 ETITECT WENT 320/12,5 1+0 RC
 ETITECT WENT 320/12,5 2+0 RC
 ETITECT WENT 320/12,5 1+1 RC



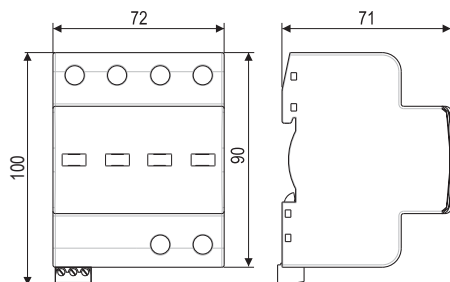
ETITECT WENT 320/12,5 3+0 RC



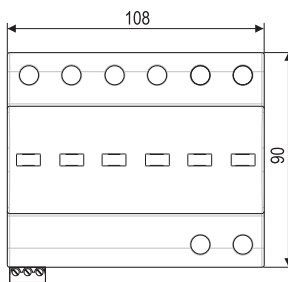
ETITECT WENT 320/12,5 4+0 RC
 ETITECT WENT 320/12,5 3+1 RC



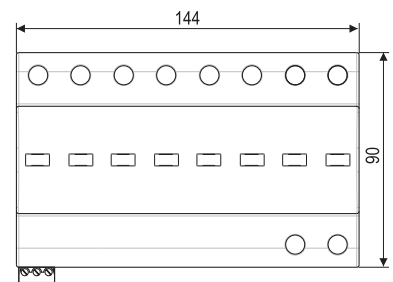
ETITECT WENT 320/25 2+0 RC
 ETITECT WENT 320/25 1+1 RC



ETITECT WENT 320/25 3+0 RC



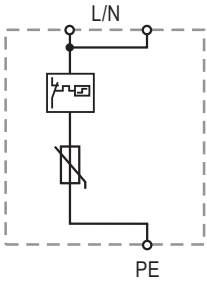
ETITECT WENT 320/25 4+0 RC
 ETITECT WENT 320/25 3+1 RC



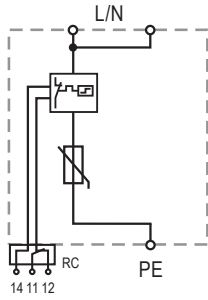
Connection diagram

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

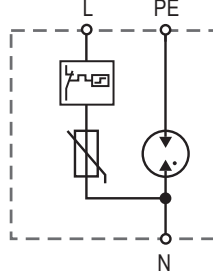
ETITECT WENT 320/12,5 1+0



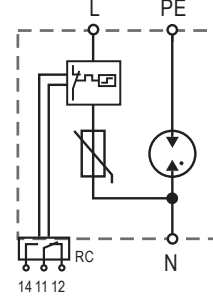
ETITECT WENT 320/12,5 1+0 RC



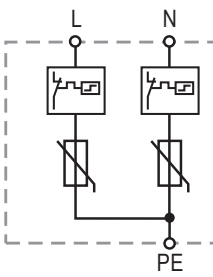
ETITECT WENT 320/12,5 1+1



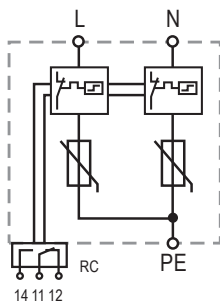
ETITECT WENT 320/12,5 1+1 RC



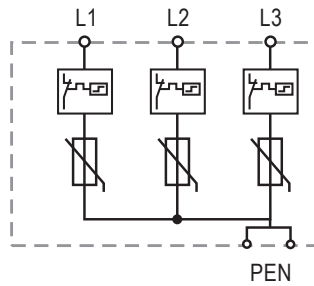
ETITECT WENT 320/12,5 2+0



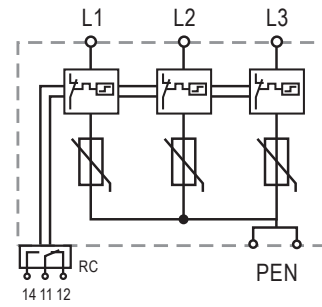
ETITECT WENT 320/12,5 2+0 RC



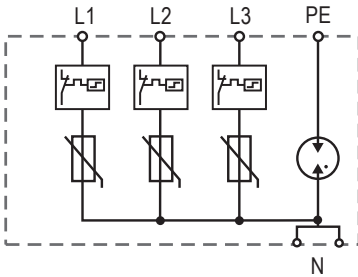
ETITECT WENT 320/12,5 3+0



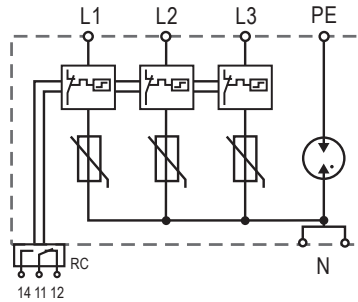
ETITECT WENT 320/12,5 3+0 RC



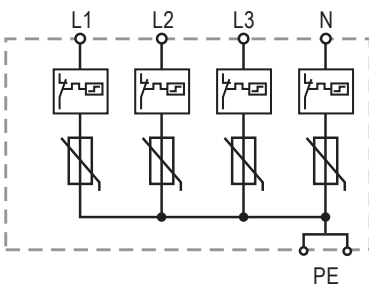
ETITECT WENT 320/12,5 3+1



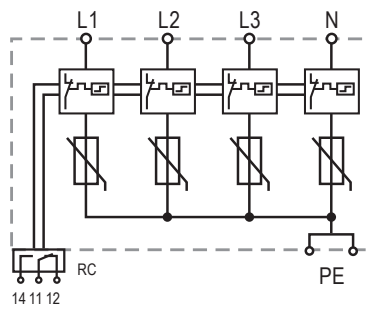
ETITECT WENT 320/12,5 3+1 RC



ETITECT WENT 320/12,5 4+0



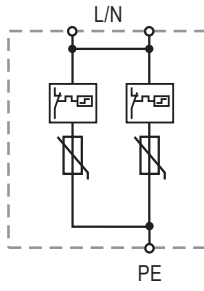
ETITECT WENT 320/12,5 4+0 RC



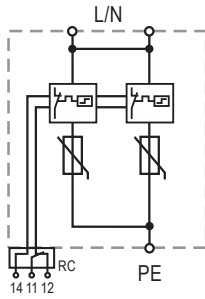
Technical data

ETITECT WENT Iimp=25 kA

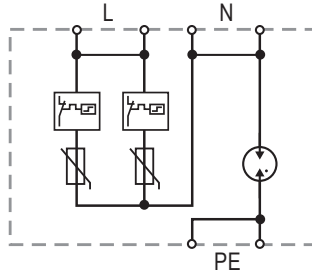
ETITECT WENT 320/25 1+0



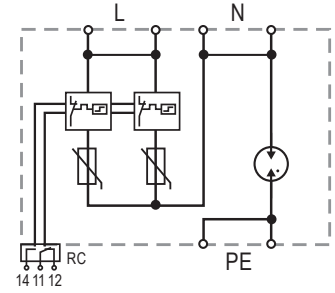
ETITECT WENT 320/25 1+0 RC



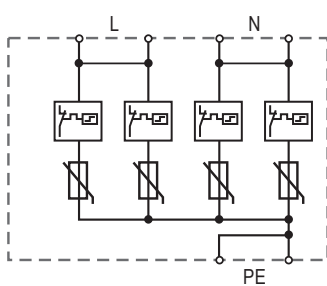
ETITECT WENT 320/25 1+1 RC



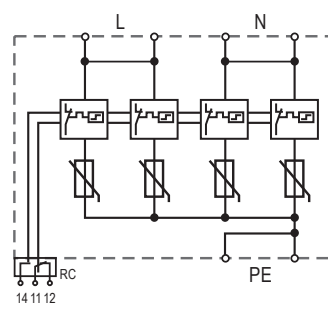
ETITECT WENT 320/25 1+1 RC



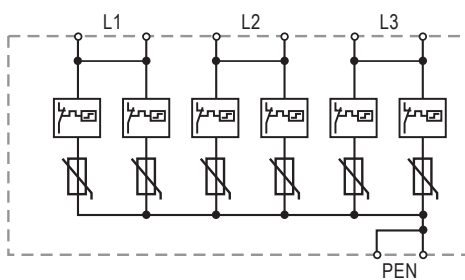
ETITECT WENT 320/25 2+0 RC



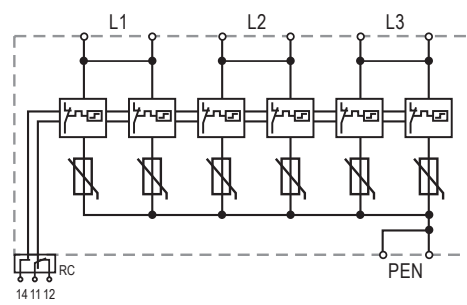
ETITECT WENT 320/25 2+0 RC



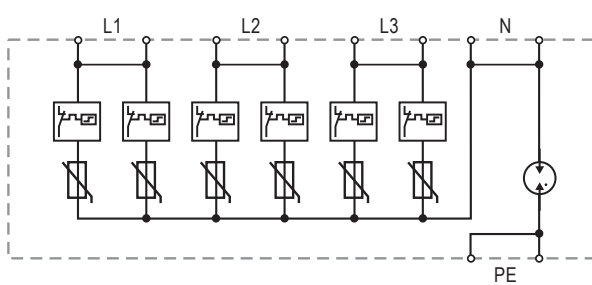
ETITECT WENT 320/25 3+0



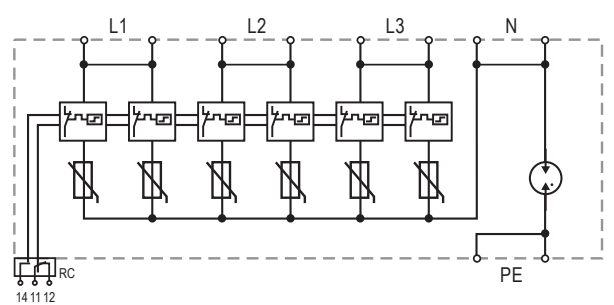
ETITECT WENT 320/25 3+0 RC



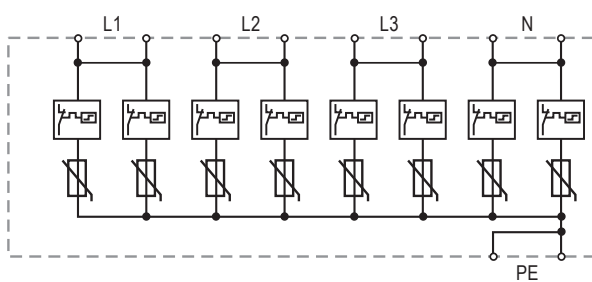
ETITECT WENT 320/25 3+1



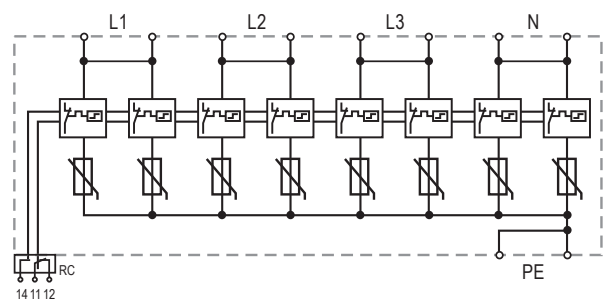
ETITECT WENT 320/25 3+1 RC



ETITECT WENT 320/25 4+0



ETITECT WENT 320/25 4+0 RC



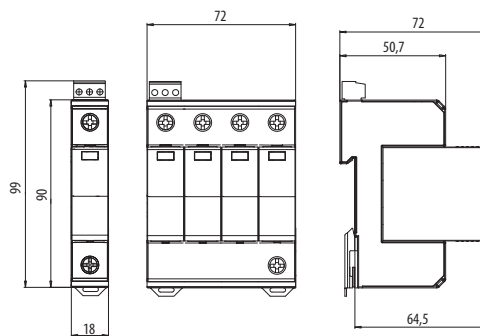
Surge arrester ETITEC group B EN/IEC/VDE: T1, T2, T3 / I, II, III / B+C+D

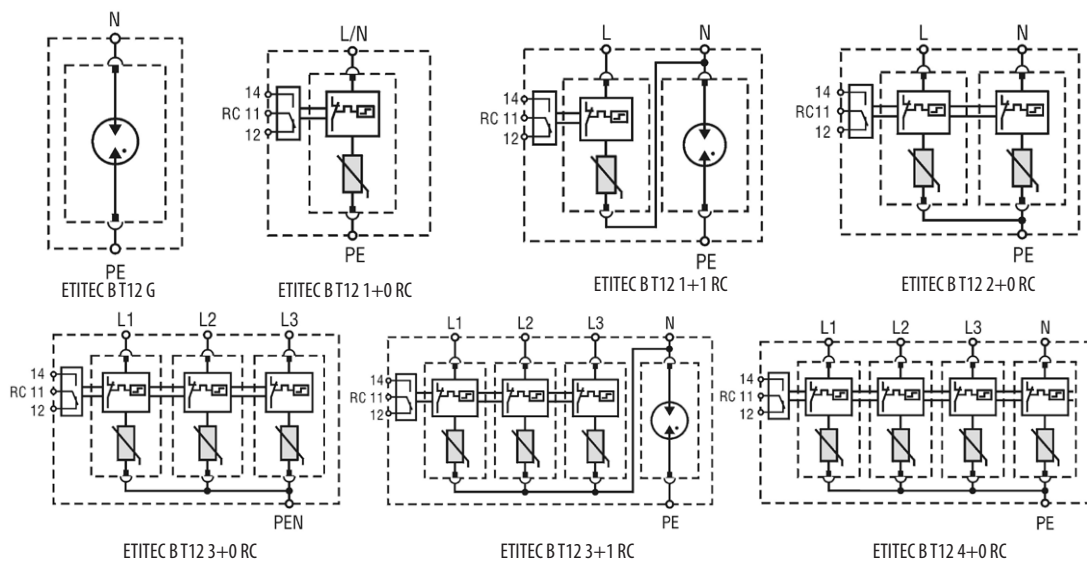
ETITEC B T12 Iimp=12,5kA			
Type	150/12,5	275/12,5	440/12,5
In accordance with	IEC/EN 61643-11		
Category IEC/EN/VDE	I, II, III / T1, T2, T3 / B, C, D		
Max. continuous operating voltage (AC) Uc	150 V	275 V	440 V
Nominal discharge current (8/20) In	25 kA		
Max. discharge current (8/20) I _{max}	60 kA		
Impulse current (10/350) I _{imp}	12,5 kA		
Nominal AC voltage U _o	230V 50-60 Hz		
TOV immunity U _T (AC)	334V/5s withstand 438 V/120 min safe disconnection		
Charge			
Protection level U _p - at I _n (8/20)	<1,0 kV	<1,4 kV	<2,0 kV
Follow current I _{fi}	x		
Response time t _a	< 25 ns		
Residual current I _{pe} at U _{ref}	< 0,3 mA		
Thermal decoupler	✓		
Torque	3,0 Nm		
Back-up fuse (if mains > 160A)	160 A gG		
Short-circuit current rating I _{scCR}	25 kA / 50 Hz		
Temperature range	- 40°C ... +70°C		
Cross-section of connection wire	min. 4mm ² , max. single strand 35mm ² , multi-strand 25mm ²		
Mounting	indoors on top hat fixing rail 35 mm (EN 60715)		
Degree of protection	IP 20		
Casing material	thermoplastic; extinguishing degree UL 94 V-0		
Dimensions	1 TE ... 4 TE		
Indication of disconnector operation	red flag		
Permissible humidity	5% - 95%		
Additional data for ETITEC B-RC			
Remote signalisation (RC)	✓		
Switching capability (RC)	AC: 250V/0.5A; 125V/3A		
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
IT 1 phase	2+0
IT 3 phase	4+0

At TNC, TNS, TT systems with U_n=230V, recommended U_c value of SPD is 275V. At IT system, recommended U_c value of SPD is 440V.





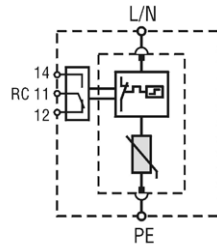
Surge arrester ETITEC group B T12 EN/IEC/VDE: T1,T2/I,II/B,C

ETITEC B T12	
Type	275/7
In accordance with	IEC/EN 61643-11
Category IEC/EN/VDE	I, II / T1,T2 / B,C
Max. continuous operating voltage (AC) U_c	275
Nominal AC voltage U_o	230V 50-60 Hz
TOV immunity U_T (AC)	335 V/5s withstand 440 V/120 min safe disconnection
Impulse current (10/350) I_{imp}	7 kA
Nominal discharge current (8/20) I_n	25 kA
Max. discharge current (8/20) I_{max}	50 kA
Charge	
Protection level U_p - at I_n (8/20)	<1,5 kV
Follow current I_f	x
Response time t_a	< 25 ns
Residual current I_{pe} at U_{ref}	< 0,2 mA
Thermal decoupler	✓
Torque	3,0 Nm
Back-up fuse (if mains > 125A)	125 A gG
Short-circuit current rating I_{scCR}	25 kA / 50 Hz
Temperature range	- 40°C ... +70°C
Cross-section of connection wire	min. 6mm ² , max. single strand 35mm ² , multi-strand 25mm ²
Mounting	indoors on top hat fixing rail 35 mm (EN 60715)
Degree of protection	IP 20
Casing material	thermoplastic; extinguishing degree UL 94 V-0
Dimensions	1 TE ... 4 TE
Indication of disconnecter operation	red flag
Permissible humidity	5% - 95%
Additional data for ETITEC B-RC	
Remote signalisation (RC)	✓
Switching capability (RC)	AC: 250V/0.5A; 125V/3A
Cross-section of connection wire (RC)	max. 1.5 mm ²
Torque (RC)	0,25 Nm

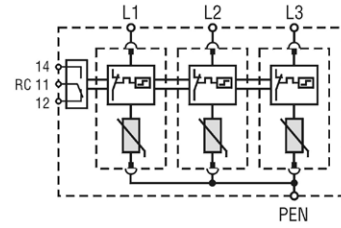
Type of network and nr. of SPD poles

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
IT 1 phase	2+0
IT 3 phase	4+0

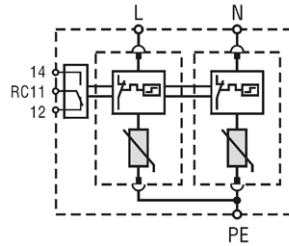
At TNC, TNS, TT systems with $U_n=230V$, recommended U_c value of SPD is 275V.
At IT system, recommended U_c value of SPD is 440V.



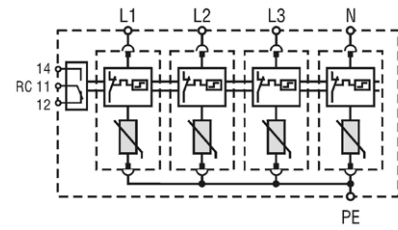
ETITEC B T12 275/7 1+0 RC



ETITEC B T12 275/7 3+0 RC

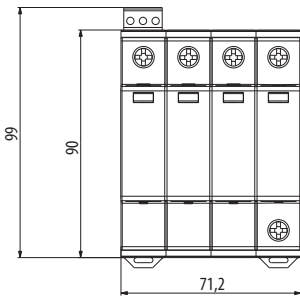


ETITEC B T12 275/7 2+0 RC

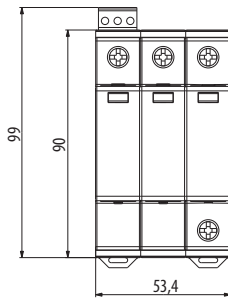


ETITEC B T12 275/7 4+0 RC

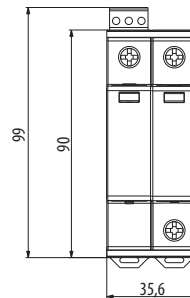
ETITEC B T12 275/7 4+0 RC



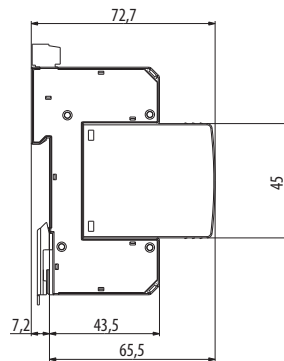
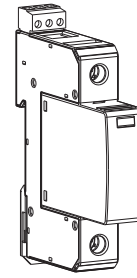
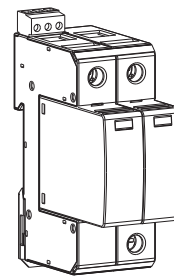
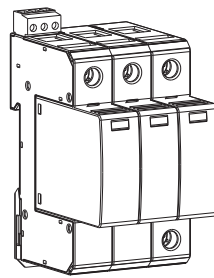
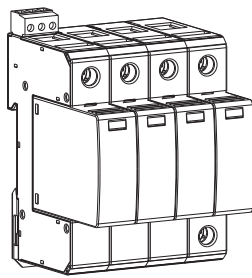
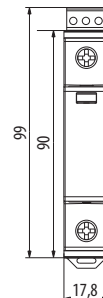
ETITEC B T12 275/7 3+0 RC



ETITEC B T12 275/7 2+0 RC



ETITEC B T12 275/7 1+0 RC



Surge arrester ETITEC group C T2

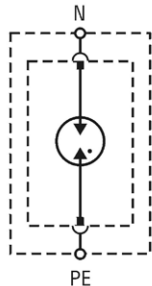
EN/IEC/VDE: T2/II/C

ETITEC C T2			
Type	275/20	440/20	255/20 G
In accordance with	IEC/EN 61643-11		
Category IEC/EN/VDE	II/T2/C		
Max. continuous operating voltage (AC) U_c	275	440	255
Nominal AC voltage U_o	230 V 50-60 Hz		
TOV immunity U_t (AC)	335 V/5s withstand	335 V/5s withstand	1200 V
	440 V/120 min safe disconnection	440 V/120 min withstand	-
Nominal discharge current (8/20) I_n	20 kA		
Max. discharge current (8/20) I_{max}	40 kA		
Charge			
Protection level U_p - at I_n (8/20)	<1,5 kV	<2,0 kV	<1,5 kV
Follow current I_f	x		>100 A
Response time t_A	< 25 ns		< 100 ns
Residual current I_{pe} at U_{ref}	< 0,2 mA		-
Thermal decoupler	✓		-
Torque	3,0 Nm		
Back-up fuse (if mains > 125A)	125 A gG		-
Short-circuit current rating I_{scCR}	25 kA / 50 Hz		-
Temperature range	- 40°C ... +70°C		
Cross-section of connection wire	min. 6mm ² , max. single strand 35mm ² , multi-strand 25mm ²		
Mounting	indoors on top hat fixing rail 35 mm (EN 60715)		
Degree of protection	IP 20		
Casing material	thermoplastic; extinguishing degree UL 94 V-0		
Dimensions	1 TE ... 4 TE		
Indication of disconnector operation	red flag		
Permissible humidity	5% - 95%		
Additional data for ETITEC C-RC			
Remote signalisation (RC)	✓		-
Switching capability (RC)	AC: 250V/0.5A; 125V/3A		-
Cross-section of connection wire (RC)	max. 1.5 mm ²		-
Torque (RC)	0,25 Nm		-

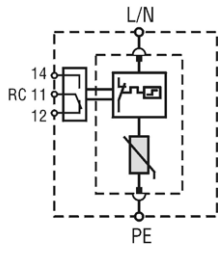
Type of network and nr. of SPD poles

Network	Nr of poles (SPD configuration)
TNC 1phase	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
IT 1 phase	2+0
IT 3 phase	4+0

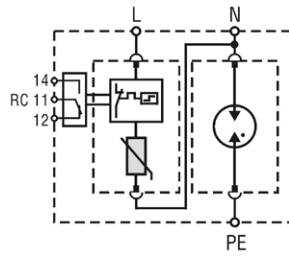
At TNC, TNS, TT systems with $U_n=230V$, recommended U_c value of SPD is 275V.
At IT system, recommended U_c value of SPD is 440V.



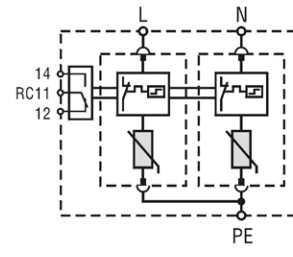
ETITEC CT2 G



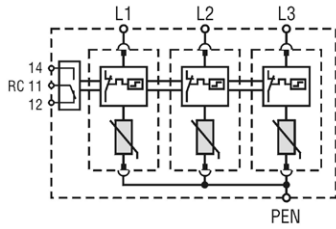
ETITEC CT2 1+0 RC



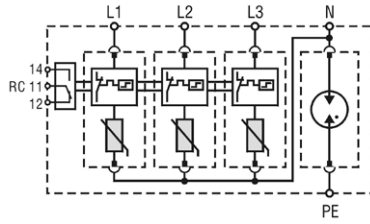
ETITEC CT2 1+1 RC



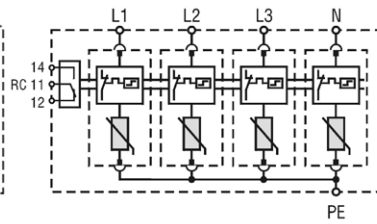
ETITEC CT2 2+0 RC



ETITEC CT2 3+0 RC

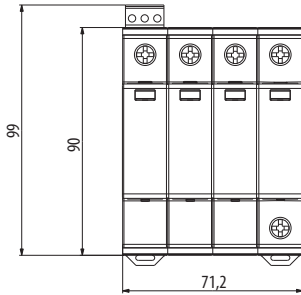


ETITEC CT2 3+1 RC

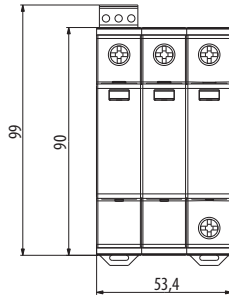


ETITEC CT2 4+0 RC

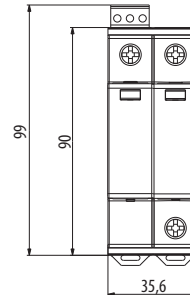
ETITEC CT2 275/20 4+0 RC
ETITEC CT2 275/20 3+1 RC



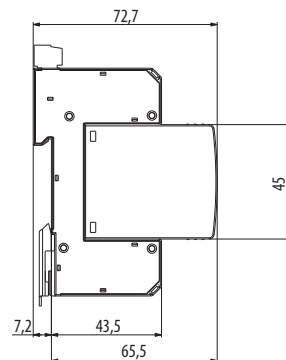
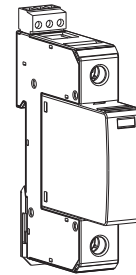
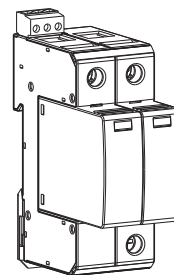
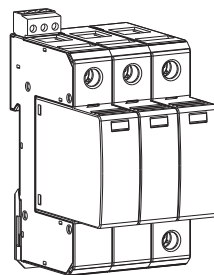
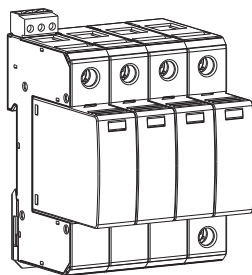
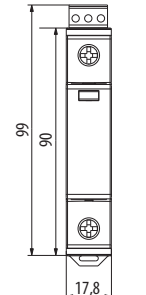
ETITEC CT2 275/20 3+0 RC



ETITEC CT2 275/20 2+0 RC
ETITEC CT2 275/20 1+1 RC



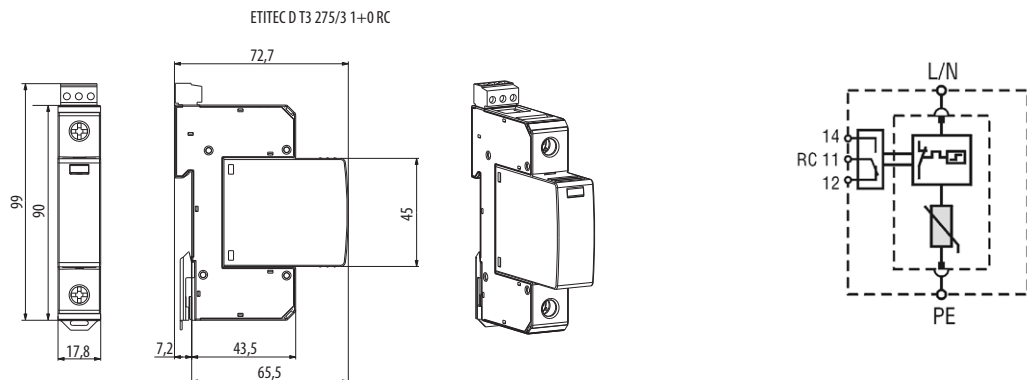
ETITEC CT2 275/20 1+0 RC



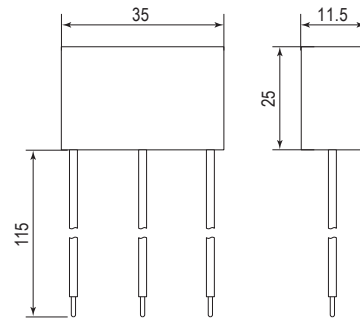
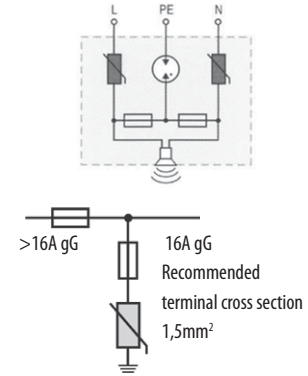
Surge arrester ETITEC group D T3

EN/IEC/VDE: T3/III/D

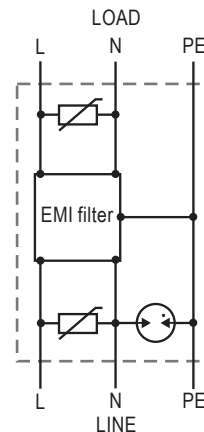
ETITEC D T3		
Type	275/3	440/3
In accordance with	IEC/EN 61643-11	
Category IEC/EN/VDE	III/T3/D	
Max. continuous operating voltage (AC) U_c	275	440
Nominal AC voltage U_o	230 V 50-60 Hz	
TOV immunity U_t (AC)	335 V/5s withstand	335 V/5s withstand
	440 V/120 min safe disconnection	440 V/120 min withstand
U_{oc}	10 kV	
Max. discharge current (8/20) I_{max}	10 kA	
Charge		
Protection level U_p - at I_n (8/20)	<1,4 kV	<1,6 kV
Follow current I_n	x	
Response time t_A	< 25 ns	
Residual current I_{pe} at U_{ref}	< 0,3 mA	
Thermal decoupler	✓	
Torque	3,0 Nm	
Back-up fuse (if mains > 63A)	125 A gG	
Short-circuit current rating I_{SCCR}	25 kA / 50 Hz	
Temperature range	- 40°C ... +70°C	
Cross-section of connection wire	min. 6mm ² , max. single strand 35mm ² , multi-strand 25mm ²	
Mounting	indoors on top hat fixing rail 35 mm (EN 60715)	
Degree of protection	IP 20	
Casing material	thermoplastic; extinguishing degree UL 94 V-0	
Dimensions	1 TE	
Indication of disconnector operation	red flag	
Permissible humidity	5% - 95%	
Additional data for ETITEC D-RC		
Remote signalisation (RC)	✓	
Switching capability (RC)	AC: 250V/0.5A; 125V/3A	
Cross-section of connection wire (RC)	max. 1.5 mm ²	
Torque (RC)	0,25 Nm	



ETITEC D 255/3 MINI	
Electrical	
Nominal AC voltage U_0	230V
Max. continuous operating voltage (AC) U_c	275V
Open Circuit Voltage of the Combination Wave Generator (1,2/50 μ s) U_{oc}	$U_{oc} = 6kV$ (L+N-PE) $U_{oc, total} = 10kV$
Short-Circuit Current of the Combination Wave Generator (8/20 μ s) I_{sc}	3kA
Protection level $U_p - at I_n$ (8/20)	(L-N) $U_p = 1,5kV$ (L-PE)/(N-PE) $U_p = 1,7kV$
Response time t_A	<100ns
Back-up fuse (if mains > 16A)	B 16 A
Short-circuit current rating I_{SCCR}	1 kA
TOV immunity U_T (AC)	337 V/5s withstand
Mechanical and Environmental	
Temperature range	-40°C ... +85°C
Permissible humidity	5% ... 95%
Cross-section of connection wire	1 mm ² (stranded)
Mounting	cable ducts
Degree of protection	IP 20
Housing material	thermoplastic; extinguishing degree UL 94 V-0
Thermal decoupler	✓
Fault Indication	Buzzer



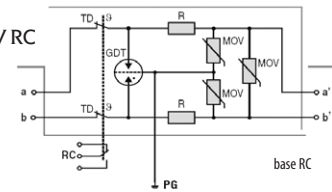
Technical data ETITEC FILT D	
In accordance with	IEC-61643-1
Category IEC / VDE	III / D
Connection:	TN-S, TT
Protecting:	L/N-PE
Protective elements:	GDT, MOV & EMI filter
Max. continuous operating voltage (AC/DC) U_c	275/50 Hz
Combination wave (1.2/50-8/20) U_{oc}/I_{sc}	6kV/3kA
Max. Load current I_L	8A
Protection level U_p	$\geq 800V$
Asymmetrical attenuation	<70 dB at 5MHz
Terminal cross section	1,5 mm ² (stranded)
Indication	Light
Housing	Thermoplastic
Dimensions (w*h*d)	33*90*57mm



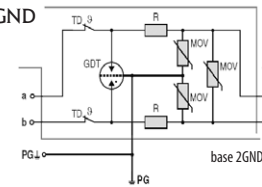
Surge protection of SIGNAL/CONTROL lines type EM-TD

Technical data		
Type	ETITEC EM-TD 110V	ETITEC EM-TD 24V
Protection construction	two parts: base extractable insert	
Number of protected pairs	1 (2 conductors)	
Nominal operating voltage U_n	110V DC	24V DC
Max. continuous operating voltage	170V DC	28V DC
Rated spark overvoltage	184-264 V	30-36 V
Rated operating current I_L at 25°C	1A	145 mA
Nominal discharge current I_n (8/20)	10kA	10 kA
Max. discharge current I_{max} (8/20)	20 kA	20 kA
Residual voltage at 5kA (8/20)	< 450 V	< 65 V
Response time t_A	< 25ns	< 1ns
Thermal protection	thermal disconnection in lines a and b	
Overcurrent protection	PTC resistor at $I > 0,3A$	
Insulation resistance	> 1 Gohm/100 V DC	> 24 Mohm/24 V DC
Serial resistance R	cca. 1ohm	cca. 9-11 ohm
Transverse capacitance C	90 pF	2,9 pF
Limit frequency f_c	10 Mhz	1,4 Mhz
Terminal cross section	Multi-strand to 6 mm ²	
Operating temperature J	- 40°C ... +80°C	- 25°C ... +50°C
Degree of protection	IP 20	
Casing material	thermoplastic; extinguishing degreeV-0	
Housing colour	yellow	
Dimensions DIN 43880	1 TE	
Mounting	on 35 mm DIN rail	

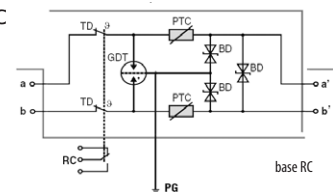
ETITEC EM-TD 110V RC



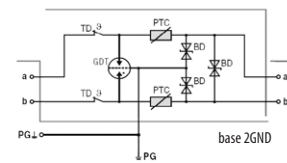
ETITEC EM-TD 110V 2 GND



ETITEC EM-TD 24V RC



ETITEC EM-TD 24V 2 GND

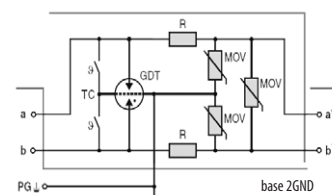

LEGEND

- TD - thermal decoupler
- GDT - gas discharge tube
- MOV - varistor
- PTC - resistor with a positive temperature coefficient
- R - resistor
- BD - bi-directional diode
- SG - signal grounding
- PG - protective grounding

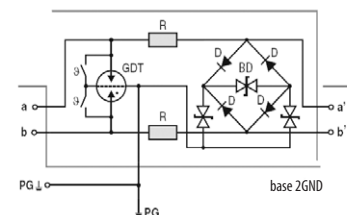
Surge protection of SIGNAL/CONTROL lines type EMH-TC

Technical data		
Type	ETITEC EMH-TC 110V	ETITEC EMH-TC 24V
Protection construction	two parts: base extractable insert	
Number of protected pairs	1 (2 conductors)	
Nominal operating voltage U_n	110V DC	24V DC
Max. continuous operating voltage	170V DC	28V DC
Rated spark overvoltage	184-264 V	30-36 V
Rated operating current I_L at 25°C	1A	1 A
Nominal discharge current I_n (8/20)	10kA	10 kA
Max. discharge current I_{max} (8/20)	20 kA	20 kA
Residual voltage at 5kA (8/20)	< 450 V	< 65 V
Response time t_A	< 25ns	< 1ns
Thermal protection	thermo clip	
Insulation resistance	> 1 Gohm/100 V DC	> 24 Mohm/24 V DC
Serial resistance R	cca. 1ohm	cca. 1ohm
Transverse capacitance C	150 pF	30 pF
Limit frequency f_c	10 Mhz	35 Mhz
Terminal cross section	Multi-strand to 6 mm ²	
Operating temperature J	- 40°C ... +80°C	
Degree of protection	IP 20	
Casing material	thermoplastic; extinguishing degreeV-0	
Housing colour	yellow	
Dimensions DIN 43880	1 TE	
Mounting	on 35 mm DIN rail	

ETITEC EMH-TC 110V 2 GND



ETITEC EMH-TC 24V 2 GND


LEGEND

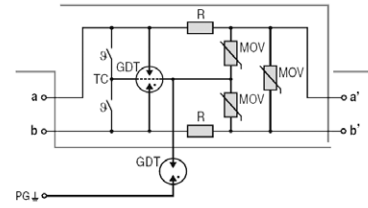
- TD - thermal decoupler
- GDT - gas discharge tube
- MOV - varistor
- PTC - resistor with a positive temperature coefficient
- R - resistor
- BD - bi-directional diode
- SG - signal grounding
- PG - protective grounding

Surge protection of SIGNAL/CONTROL lines type EMS-TC

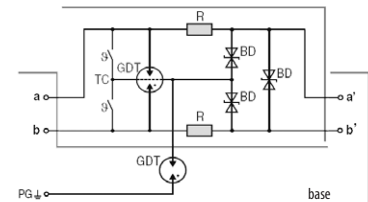
Technical data

Type	ETITEC EMS-TC 110V	ETITEC EMS-TC 24V
Protection construction	two parts: base extractable insert	
Number of protected pairs	1 (2 conductors)	
Nominal operating voltage Un	110V DC	24V DC
Max. continuous operating voltage	170V DC	28V DC
Rated spark overvoltage	a/b-PG; 420-680 V a/b; 184-264 V	a/b-PG; 350-500 V a/b; 30-36 V
Rated operating current I _L at 25°C	1 A	1 A
Nominal discharge current I _n (8/20)	10kA	10 kA
Max. discharge current I _{max} (8/20)	20 kA	20 kA
Residual voltage at 5kA (8/20)	< 450 V	< 65 V
Response time t _A	a/b; < 25ns a/b-PG; 100ns	< 1ns a/b-PG; 100ns
Insulation resistance	> 1 Gohm/100V DC	> 24 Mohm/24 V DC
Serial resistance R	cca. 1ohm	cca. 1ohm
Transverse capacitance C	a/b; 90 pF a/b-PG; 8pF	a/b; 1,9 pF a/b-PG; 8pF
Limit frequency f _g	10 Mhz	1,4 Mhz
Terminal cross section	Multi-strand to 6 mm ²	
Operating temperature J	-40°C ... +80°C	
Degree of protection	IP 20	
Casing material	thermoplastic; extinguishing degreeV-0	
Housing colour	yellow	
Dimensions DIN 43880	1 TE	
Mounting	on 35 mm DIN rail	

ETITEC EMS-TC 110V



ETITEC EMS-TC 24V



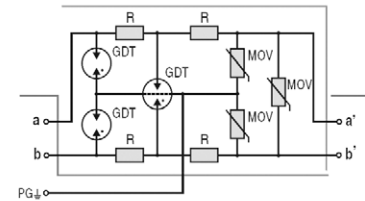
LEGEND
 TD - terminal decoupler
 GDT - gas discharge tube
 MOV - varistor
 R - resistor
 BD - bi-directional diode
 PG - protective grounding

Surge protection of SIGNAL/CONTROL lines type EMO

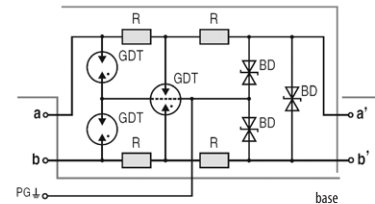
Technical data

Type	ETITEC EMO 110V	ETITEC EMO 24V
Protection construction	two parts: base + extractable insert	
Number of protected pairs	1 (2 conductors)	
Nominal operating voltage Un	110V DC	24V DC
Max. continuous operating voltage	170V DC	28V DC
Rated spark overvoltage	a/b-PG; 184-264 V a/b; 184-264 V	a/b-PG; 30-36 V a/b; 30-36 V
Rated operating current I _L at 25°C	1 A	1 A
Nominal discharge current I _n (8/20)	20 kA	20 kA
Max. discharge current I _{max} (8/20)	30 kA	30 kA
Lightning impulse current (10-350)	5 kA	5 kA
Residual voltage at 5kA (8/20)	< 450 V	< 65 V
Response time t _A	< 25ns	< 1ns
Insulation resistance	> 1 Gohm/100 V DC	> 24 Mohm/24 V DC
Serial resistance R	cca. 2 ohm	cca. 2 ohm
Transverse capacitance C	150 pF	2,9 pF
Limit frequency f _g	10 Mhz	1,8 Mhz
Terminal cross section	Multi-strand to 6 mm ²	
Operating temperature J	-40°C ... +80°C	
Degree of protection	IP 20	
Casing material	thermoplastic; extinguishing degreeV-0	
Housing colour	yellow	
Dimensions DIN 43880	1 TE	
Mounting	on 35 mm DIN rail	

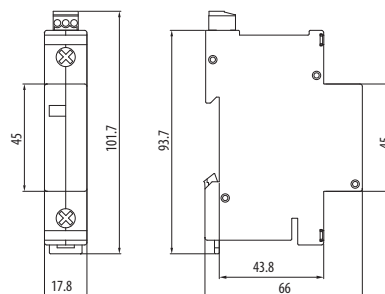
ETITEC EMO 110V



ETITEC EMO 24V

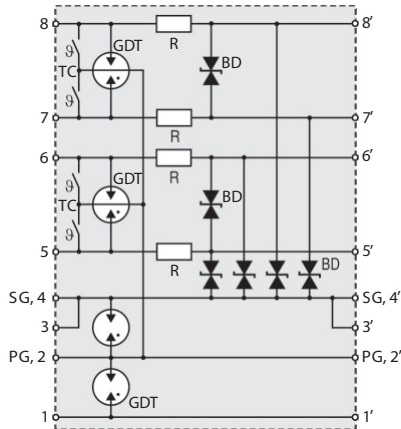
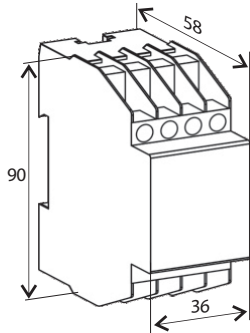


LEGEND
 GDT - gas discharge tube
 MOV - varistor
 R - resistor
 BD - bi-directional diode



ETITEC C EM-TD, EMH-TC, EMS-TC, EMO

Technical data

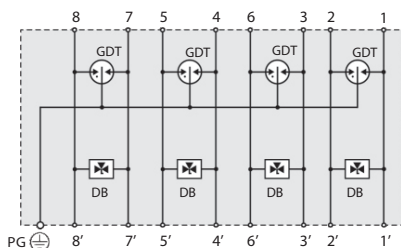
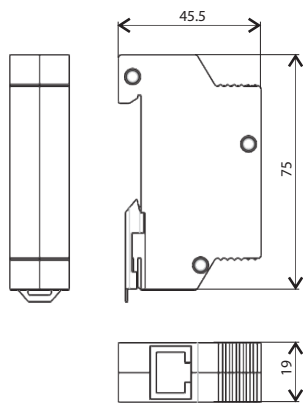


Legend:

- TC thermo-clip
- GDT gas discharge tube
- R resistor
- BD bi-directional TVS diode
- PG protective grounding
- SG signal grounding

Technical data ETITEC EM-RS485

Protection construction		Protective module
Number of protected pairs		2 (4 conductors)
Nominal operating voltage	U_n	5VDC
Max. continuous operating voltage	U_c	6VDC
Rated spark overvoltage	(5, 6, 7 & 8 - 4, SG)	6.5V - 8.5V
	(5-6 & 7-8)	6.5V - 8.5V
	(5, 6, 7 & 8 - 2, PG)	78V - 116V
Rated operating current at 25°C	I_l	500mA
Nominal discharge current (8/20μs)	I_n	20kA
Residual voltage at 5 kA (8/20μs)		20V
Response time of overvoltage protection	t_A	< 1ns (5, 6, 7, 8 - SG))
Thermal protection		Thermo-clip in lines 5, 6, 7 and 8
Insulation resistance of the protection		6kΩ
Serial resistance	R	1.7 - 1.9Ω
Transverse capacitance	C	< 2nF
Limit frequency	f_g	> 1MHz
Terminal cross section		Multi-strand to 2 x 2.5mm ²
Operating temperature		-40°C ... +80°C
Degree of protection		IP 20
Housing material		Thermoplastic; gray, extinguishing degree V-0
Dimensions DIN 43880		2TE
Mounting EN 60715		on a 35mm DIN rail



Legend:

- GDT gas discharge tube
- DB diode block
- PG protective grounding

Technical data ETITEC LAN

Protection construction		Protective module
Nominal operating voltage		U_n 48VDC
Max. continuous operating voltage		U_c 48VDC
Nominal operating current		I_l 1A
Nominal discharge current (8/20μs)		I_n 150A line - line
Total nominal discharge current (8/20μs)		I_n 10kA lines - PG
Voltage protection level at I_n		U_p 150V line - line 550V line - PG
Limit frequency		f_g < 250MHz (Class E)
Response time of overvoltage protection		t_A < 1ns
Connection		Input/Output: RJ45 sockets, all 4 line pairs protected
Operating temperature		-40°C ... +80°C
Degree of protection		IP 20
Housing material		Metal

