

NEW

ETI

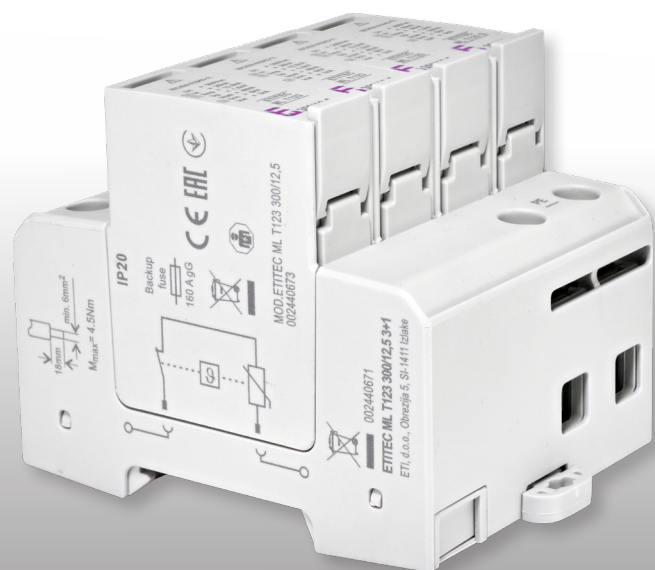
ETITEC ML

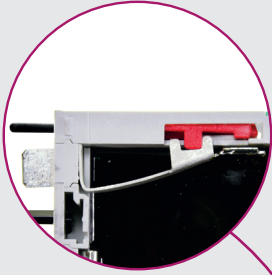
ETITEC ML T123 is surge arrester for complete overvoltage protection in standard modular housing. Protection corresponds to all categories of overvoltage protections: IEC categories I, II, III and EN Type 1, Type 2, Type 3. Groups B, C, D by VDE. It's intended for installation in main distribution board or in power distribution enclosure in front of energy meter, as the first level of protection against lightning strikes, partial direct, indirect atmospheric discharges and induced surges. Due to the housing of standard modular size, it can be installed also in any sub-distribution board.

In case of permanent arrester damage, thermal protection is activated which signalizes faulty arrester. Consequently only the SPD module has to be replaced, while base unit remains fixed on DIN rail. Compliance: IEC 61643-11:2011, EN 61643-11:2012+A11:2018

Tip 1 + Tip 2 + Tip 3
1+0, 2+0, 3+0, 4+0, 1+1, 3+1; RC

ETITEC ML T123 300/12,5

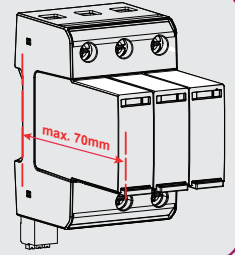




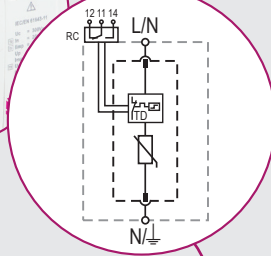
Each module is equipped with a thermal disconnection system which disconnects faulty device from power supply in case of MOV overload due to high energy surge, TOV or ageing.

The product printing informs about the basic technical parameters of the device and its connection, the maximum cross section of the conductors: - 35 mm² (solid, stranded), - 25 mm² (flexible)

Important! The depth of the ETITEC ML T123 300/12.5 enclosure is up to 70 mm.



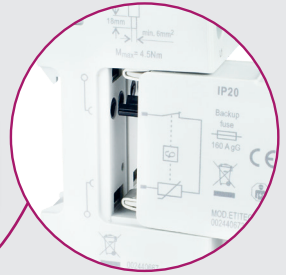
High performance MOV inside



Visual fault indication:
RED as faulty (needs replacement)
GREEN as OK



Latching mechanism for extra reliable module holding



Coding system prevents wrong module insertion.



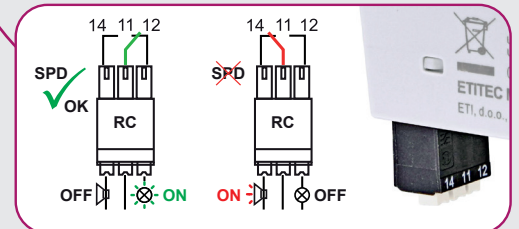
The earth connection terminal allows additional connection 2nd earth conductor (V connection type).



When using multiple 1-pole SPDs, it is possible to connect the earthing busbar and the conductor at the same time, both at the top and at the bottom.



Spring-loaded fixing for easy mounting on DIN rail.



Remote signalling (RC version) of fault indication

Technical characteristics		ETITEC ML T123 300/12,5 (1+0), (2+0), (3+0)	ETITEC ML T123 300/12,5 (1+1), (3+1)
In accordance with		IEC 61643-11:2011, EN 61643-11:2012+A11:2018	
Category		T1, T2, T3/I, II, III/B+C+D	
Nominal AC voltage (50/60Hz)	U _o	240V; 50-60 Hz	
Maximum continues operating voltage (AC)	U _c	300 V (L-N)	300 V (L-N) / 305 (N-PE)
TOV immunity (AC)	U _r	337 V (L-N) withstand 5s	
		442V/120 min (L-N) Safe fail	442V/120 min (L-N) Safe fail, 1200V (N-PE) withstand 200ms
Impulse disch. current per pole (10/350 μs)	I _{imp}	12,5 kA	12,5 kA/50 kA
Nominal discharge current (8/20 μs)	I _n	20 kA	20 kA (L-N)/50 kA(N-PE)
Max. discharge current (8/20 μs)	I _{max}	40 kA	40 kA (L-N)/100 kA(N-PE)
Voltage Protection level for Type2 / for Type 3	U _p	1500 V / 900V	1500 V / 900V (L-N)/(N-PE)
Open circuit voltage Type 3 test	U _{oc}	6 kV	
Follow current	I _{fi}	-	
Response time	t _A	<25 ns	<25 ns (L-N) / < 100 ns (N-PE)
Back-up fuse (overcurrent protection max.)		160 A gG	
Short circuit current rating (AC)	I _{scr}	50 kA	
Operating temperature range	T _a	-40 °C ... +85 °C	
Permissible operating humidity	RH	5% - 95%	
Altitude (max.)		4000 m	
Terminal screw torque	M _{max}	4,5 Nm	
Conductor cross section (max.)		35 mm ² (solid, stranded) / 25 mm ² (flexible)	
Mounting		TH 35 din rail, EN 60715	
Degree of protection		IP 20	
Housing material		thermoplastic; flammability class UL 94 V-0	
Thermal protection		YES	
Fault indication (visual)		OK - green indicator / faulty - RED indicator	
Fault indication (remote contacts)		YES, (version with RC contact)	
Technical characteristics of ETITEC ML T123 (signal contact) - type ... RC			
Max. current capacity	I _n	AC: 250V/1A; DC: 48V/0,5A; 24V/0,5A; 12V/0,5A	
Conductor cross section (max.)		max. 1,5 mm ² (single-core)	

New series of ETITEC ML T123 SPDs

Type*	Code No.	Protection	I _{imp} (kA) (10/350)	I _n /I _{max} (kA) L-N/N-PE (8/20)	U _c (V AC)	RC	Network
ETITEC ML T123 300/12,5 1+0	002440661	T1, T2, T3	12,5	20/40	300	NO	TNC
ETITEC ML T123 300/12,5 1+0 RC	002440662	T1, T2, T3	12,5	20/40	300	YES	TNC
ETITEC ML T123 300/12,5 2+0	002440663	T1, T2, T3	12,5	20/40	300	NO	TNC-S
ETITEC ML T123 300/12,5 2+0 RC	002440664	T1, T2, T3	12,5	20/40	300	YES	TNC-S
ETITEC ML T123 300/12,5 3+0	002440665	T1, T2, T3	12,5	20/40	300	NO	TNC
ETITEC ML T123 300/12,5 3+0 RC	002440666	T1, T2, T3	12,5	20/40	300	YES	TNC
ETITEC ML T123 300/12,5 4+0	002440667	T1, T2, T3	12,5	20/40	300	NO	TNC-S
ETITEC ML T123 300/12,5 4+0 RC	002440668	T1, T2, T3	12,5	20/40	300	YES	TNC-S
ETITEC ML T123 300/12,5 1+1	002440669	T1, T2, T3	12,5	20/40+50/100	300	NO	TN, TT
ETITEC ML T123 300/12,5 1+1 RC	002440670	T1, T2, T3	12,5	20/40+50/100	300	YES	TN, TT
ETITEC ML T123 300/12,5 3+1	002440671	T1, T2, T3	12,5	20/40+50/100	300	NO	TN, TT
ETITEC ML T123 300/12,5 3+1 RC	002440672	T1, T2, T3	12,5	20/40+50/100	300	YES	TN, TT

*The first digit of the value (1+0), (1+1), (2+0), (3+0), (3+1), (4+0) indicates the number of varistors (MOVs); the second digit of the value (1+0), (1+1), (2+0), (3+0), (3+1), (4+0) shows the presence (1) or absence (0) of the GDT element (TT network systems); note: the values of I_{imp} and I_n/I_{max} - indicated per one pole



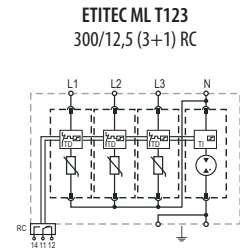
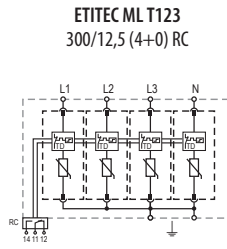
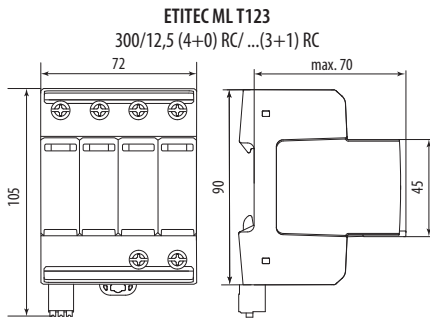
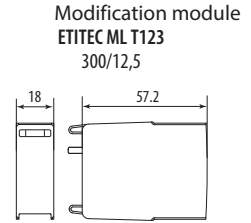
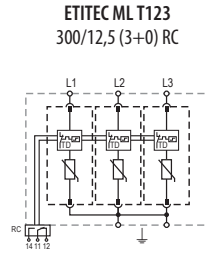
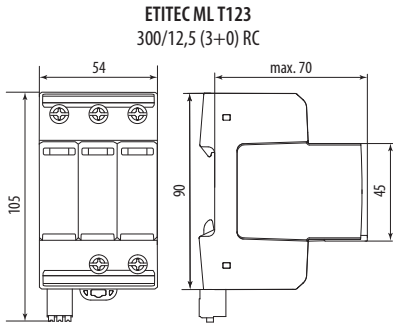
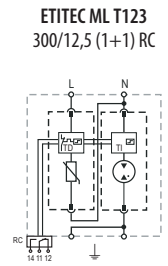
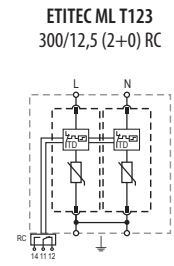
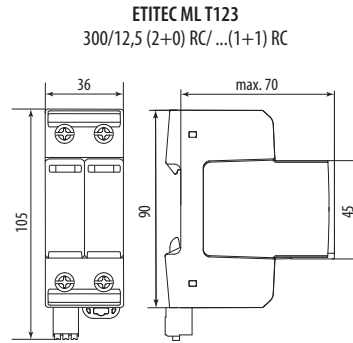
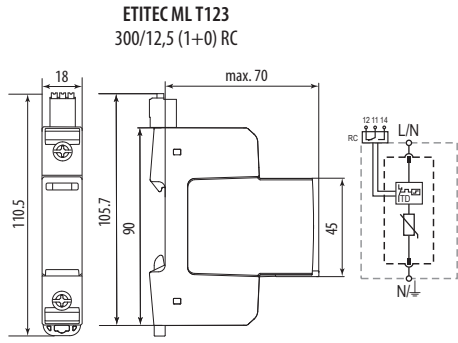
ETITEC ML T123
300/12,5 2+0



ETITEC ML T123
300/12,5 3+0



ETITEC ML T123
300/12,5 3+1

ETITEC ML T123 dimensions and connection diagrams


*All dimensions are in mm

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Power Needs Control