

TECHNICAL PRODUCT DATASHEET

OVR T1-T2 1L 25-255 P TS (2CTB813251R2300)

Surge Protective Devices



Type 1 + 2 SPD's have characteristics of type 1 but also type 2, they are capable of discharging a very high lightning current and they have as well a low residual voltage (Up).

If the announced Up is not compatible with the withstand voltage of the equipment to protect or if the cable length to the equipment is longer than 10m, another level of coordination with OVR T2-T3 will be needed.



T1-T2 / UL Type 2 CA



__ limp = 25 kA



__ Up < 1,5 kV



IEC 61643-11 EN 61643-11 UL 1449 5th Ed GB/T 18802.11-2020



Approvals VDE, KEMA, UL, UKCA, RCM, CMIM, CQC

Application

They are typically installed inside the main AC distribution switchboard but also in subdistribution board.

Technical specifications and standards

Key features		
System network	TNS - TT- TNC	
Protection mode	L to N / N to PE / L to PE (N)	
Number of protected lines	1	
End of life indicator	Green = functional / Red = replace	
Technology	Spark Gap	

Electrical performances			
Nominal Network Voltage	U _N	230 / 400	V
Lightning impulse current (10 / 350 μs) [L-N] / [N-PE]	limp (10 / 350 μs)	25 / -	kA
Nominal discharge current [L-N] / [N-PE]	In (8 / 20 μs)	25 / -	kA
Maximal continuous operating voltage	Uc AC	264	V
System frequency		47 to 63	Hz
Voltage protection level Up at In [(L-N) / (N-PE) / (L-PE)]	Up	≤ 1.5 / - / ≤ 1.5	kV
Short circuit current rating [(L-N) / (N-PE)]	Isccr	50 / -	kA
Maximum Prospective Short-Circuit Current [(L-N) / (N-PE)]	PSCC	100 / -	kA
Follow current interrupted [(L-N) / (N-PE)]	Ifi	50 / -	kA
Back up protection		≤ 315 gG	А
Leakage current	Ipe	< 1	mA
Response time		< 100	ns
V wiring according to IEC 61643-11 Ed 2011	IL	In ≤ 125	A
TOV withstand (L-N: 120 min. / N-PE)	e (TOV) [L-N] (UT)	440	V

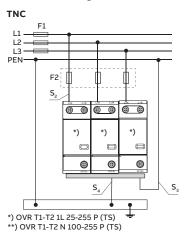
Dimensions	LxWxD	99 x 36 x 73	mm
Flexible wire (single wiring / V wiring)		1035 / 1025	mm²
Solid/ Stranded wire (single wiring / V wiring)		1050 / 1035	mm²
Stripping length		16,5	mm
Tightening torque		7	Nm
Maximal altitude		2000	m
Operating temperature		-40 to +80	°C
Relative humidity		95 (non condensing)	%HR
Degree of protection		IP 20	
Enclosure material rating and co	olor	UL 94 V-0 / Grey RAL 7035	
Weight		0.33	Kg

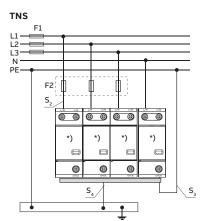
Auxiliary contact (TS)	Contact information	1NO - 1NC	
Minimum load		12 VDC - 10 mA	
Maximum load		250 VAC - 1A	
Connection cross-section [mm²]	Flexible or Stranded	0.51.5	
Tightening torque (TS)		0.2	Nm

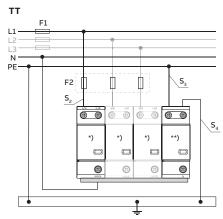
Replacement cartridge		
Product ID / Model no	2CTB813252R2300	OVR T1-T2-T3 1L 25-255 C

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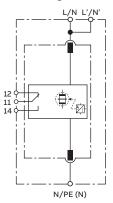
Installation wiring







Internal diagram



Physical dimensions

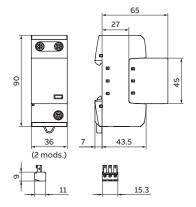


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