

OVR T1-T2 N 100-255 P (2CTB813010R2300)

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.







limp = 100 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	
Protection mode		N to PE	
Number of protected lines			1
End of life indicator		Green = function	al / 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)	- / 100	kA
Nominal discharge current [L-N] / [N-PE]	In (8 / 20μs)	- / 100	kA
Maximal continuous operating voltage	Uc AC	255	V
System frequency		47 to 63	Hz
Voltage protection level Up at In [(L-N) / (N-PE) / (L-PE)]	Up	- / ≤ 1.5 / -	kV
Short circuit current rating [(L-N) / (N-PE)]	lsccr	-/-	kA
Maximum Prospective Short-Circuit Current [(L-N) / (N-PE)]	PSCC	-/0,1	kA
Follow current interrupted [(L-N) / (N-PE)]	lfi	-/0,1	kA
Back up protection			
Leakage current	Ipe	<1	mA
Response time		< 100	ns
V wiring according to IEC 61643-11 Ed 2011	IL	ln ≤ 125	A
TOV withstand (N-PE: 200 ms)	e (TOV) [L-N] (UT)	1200	V

Mechanical features			
Dimensions	L x W x D	90 x 36 x 73	mm
Flexible wire (single wiring / V wiring)		1035 / 1025	mm²
Solid/ Stranded wire (single wiring	g / 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 color		UL 94 V-0 / Grey RAL 7035	
Weight		0.32	Kg

Auxiliary contact (TS)	Contact information	
Minimum load		
Maximum load		
Connection cross-section [mm ²]	Flexible or Stranded	
Tightening torque (TS)		Nm

Replacement cartridge

Product ID / Model no

2CTB813012R2300

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Internal diagram



Physical dimensions



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