

Expert in lightning protection and electric surges



PRBT-S RDS Rede Isolada



PRBT-S RDS Rede Convencional



Description

The Low Voltage Surge Arrester (LVSA) is a Class II (IEC 61643-11) and Type 4 CA (UL 1449) Surge Protective Device (SPD) for use in low voltage secondary distribution networks up to 440 Volts.

Characteristics

- High current conduction capacity caused by power surges;
- Non-explosive automatic cut-off device, with visual end-of-life span identification;
- Simple installation for open-wire and insulated network.

Applications

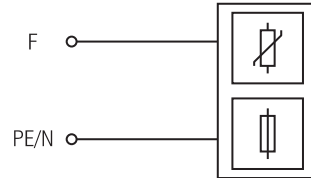
Protection of equipment installed in low voltage secondary distribution networks or particular, rural, industrial or condominiums air networks, such as transformers, reclosers and energy meters.

Agency	Standard	Model	Nº Certificate
UL	UL 1449	280V/10kA - 280V/20kA 440V/10kA - 440V/20kA	E 337129

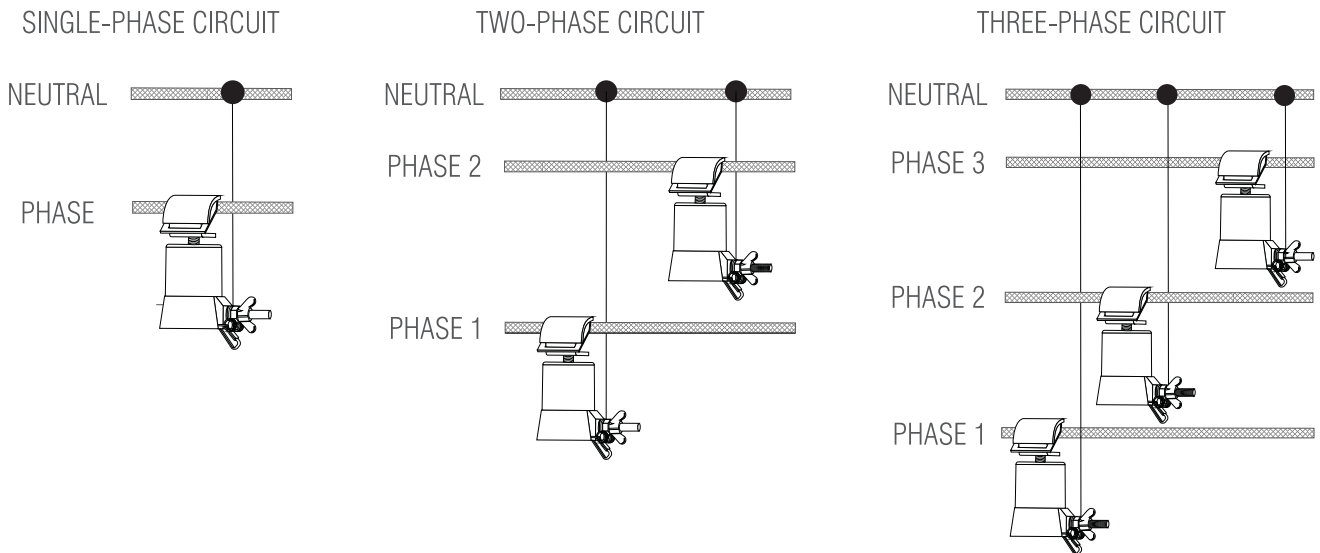
Technical characteristics	Unid.	PRBT-S RDS Conventional Power Grid				PRBT-S RDS Insulated Power Grid			
		280V/10kA	280V/20kA	440V/10kA	440V/20kA	280V/10kA	280V/20kA	440V/10kA	440V/20kA
Standards	-	UL 1449 and IEC 61.643-11							
Model	-	280V/10kA	280V/20kA	440V/10kA	440V/20kA	280V/10kA	280V/20kA	440V/10kA	440V/20kA
Part Number CLAMPER	-	005821	004344	006930	004920	005820	004239	006931	004921
Protection Mode	-	Line / Neutral or Line / Ground							
Protection technology	-	Metal Oxide Varistor (MOV)							
Typical response time	ns	25							
Thermal protection	-	Yes							
Maximum continuous operating voltage - U_c	V	280 ~		440 ~		280 ~		440 ~	
Reference voltage @ 1 mA - U_{REF}	V	470	430	750		470	430	750	
Nominal discharge current @ 8/20 μ s - I_N	kA	10	20	10	20	10	20	10	20
Maximum discharge current @ 8/20 μ s - I_{MAX}	kA	20	40	20	40	20	40	20	40
High intensity current withstand @ 4/10 μ s - I_S	kA	40	65	40	65	40	65	40	65
Maximum power - W_{max}	W	4,0	1,4	4,0	5,6	4,0	1,4	4,0	5,6
Voltage protection level - U_p	kV	1,3		1,8		1,3		1,8	
Dielectric Voltage Withstand @ 60 Hz	kV	2,2							
Connection conductors cross-section	mm ²	16 ... 120 (4 AWG ... 300 MCM)							
Mounting type	-	Plate-bar fastening connection				Insulated L shaped terminal			
Operating temperature	°C	-40 ... +70							
Enclousure	-	Polymeric material suitable for external use							
Ingress Protection	-	IP66							
Color	-	Black							
Approximate weight	g	200	260	215	270	180	240	200	250
Maximum dimensions	mm	91.89 x 87.95 x 52.1 (H x W x D)				102.15 x 87.95 x 52.1 (H x W x D)			

Expert in lightning protection and electric surges

Electric diagram:



Connection diagram:



Mechanical drawing:

