

Transient Voltage Surge Protection

PSE Series



The PSE range of three phase four wire modular lightning arresters covers current values from 15KA to 100KA 32A..

The PSE module contents surge protector, status indication, lightning strike counter, and output alarm...functions.

All models include a mechanical indicator showing the arrester status.

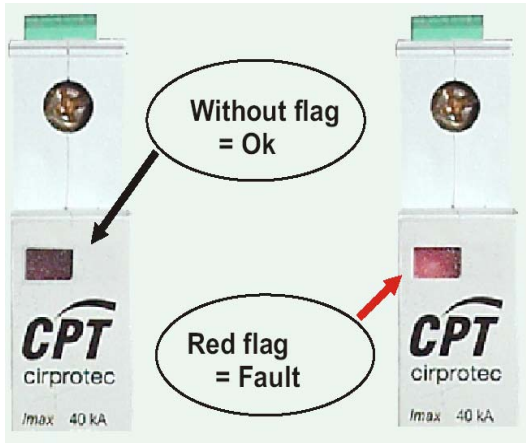
Some of them feature a safety reserve (the indicator will go first into the reserve position).

Replacing the arrester is recommended, however protection is still ensured.

Technical features

Standard	PSE-100/32 77 709 500	PSE-65/32 77 709 100	PSE-40/32 77 709 700	PSE-15/32 77 709 300
Maximum service voltage U_c (50/60Hz)	110/220V			
Protection level U_p (1.2/50) <	2.0 KV	2.0 KV	2.0 KV	2.0 KV
Maximum discharge current Mode (8/20 μ s)	100 KA	65 KA	40 KA	15 KA
Maximum discharge current Phase (8/20 μ s)	200 KA	130 KA	80 KA	30 KA
Maximum discharge current System (8/20 μ s)	400 KA	260 KA	160 KA	60 KA
Nominal discharge current I_n (8/20 μ s)	30 KA	20 KA	15 KA	5 KA
Series protection current A (include)	32 A	32 A	32 A	32 A
Maximum backup fuse (gL)	32 A	32 A	32 A	32 A
ANSI/IEEE C62.41	1.2/50 μ s 20KV , 8/20 μ s 10KA			
Response time t_a <	25 ns			
Monitoring flag	Yes			
EMI/RFI (>)	50 dB (99.7%) 100K ~ 1MHz			
Insertion loss (<)	0.15 dB			
Continuous operating current (<)	1 mA			
Protection category	IP 20			
Maximun connection wire	5.5/8 mm ²			
Operating temperature range	-40°C ... +80°C			
Dimensions (mm)	255(h) x 280(w) x 90(d)			
Voltage range (ac/dc)	$\sqrt{2} \times U_c$			
Compliance with standards	NFC61-740 IEC 61643-1 BS 6651 VDE 0675-6			

Visual Fault Indication



PSE series has been designed with a built-in disconnecting system that physically separates the surge protector from the power line, when its life has expired.

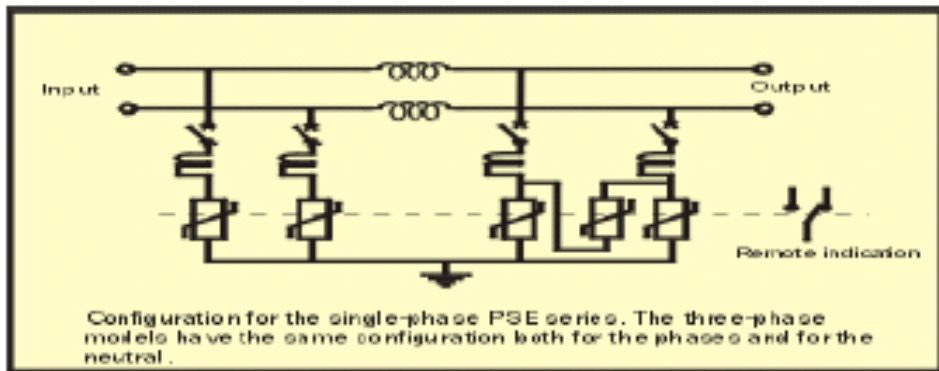
At the same time, when this occurs, the disconnecting device operates on a **visual fault indicator** that automatically appears on the front part of the surge protector.

When a **red flag** appears on the front part it indicates that the surge protector has expired and consequently has to be replaced.

No-flag = OK

Red Flag = Fault

Network Configuration



Capacity Shift Calculation (8/20us)

SHEET	1P	2P	3P	4P
PSE-15/32	15 KA	30 KA	45 KA	60 KA
PSE-40/32	40 KA	80 KA	1200 KA	160 KA
PSE-65/32	65 KA	130 KA	195 KA	260 KA
PSE-10032	100 KA	200 KA	300 KA	400 KA

CIRPROTEC,S.L.

C./Lepanto 49 – Terrassa – BARCELONA – Spain

Tel. (+34)93 733 16 84 – Fax. (+34)93 733 27 64

