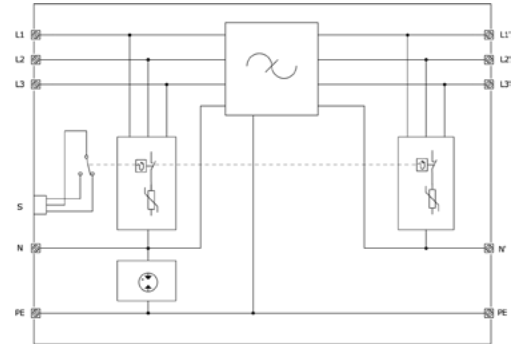
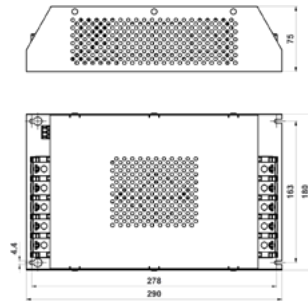
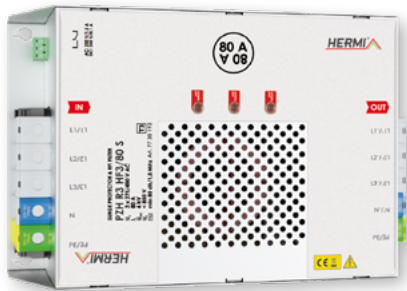


Surge Arrester TYPE 3

TYPE
3

VARISTOR & EMC / EMI FILTER

TYPE 3 / CLASS III / TN-C-S / TN-S / CE



PZH R3 HF3/80 S, /125 S, /160 S

The PZH R3 HF3* S (Hermi Surge Arrester Filter) is a two-stage surge arrester. It features a high-frequency filter integrated between the two stages. The PZH R3 HF3* S contains an improved thermal fuse, which ensures timely disconnection of the PZH R3 HF3* S from the power grid during overheating and thus prevents damage to the PZH R3 HF3* S. Activation of the thermal fuse is signalled by an integral indicator light (each phase is signalled separately) with the option to utilize its switching contact for remote fault signalling (S). The PZH R3 HF3* S is a type T3 two-port surge arrester and has been tested according to standards IEC 61643-11:2011 and CISPR 17:2011. According to standard IEC 62305:2010, it is installed in the boundary between zones LPZ 2 - LPZ 3, where it limits induced overvoltage and residual overvoltage in power lines. PZH R3 HF* S is mounted on the main board of a switchboard using four bolts.

Manufacturer's recommendation: PZH R3 HF3* S is to be installed as close as possible to the protected device (max. 5 m). A T1 lightning arrester and T2 surge arrester from Hermi must be installed in front of PZH R3 HF3* S.

TYPE		PZH R3 HF3/80 S	PZH R3 HF3/125 S	PZH R3 HF3/160 S
Test class according to EN 61643-11 ed.2 (IEC 61643-11:2011)			TYPE 3, CLASS III	
System			TN-C-S, TN-S	
Max. continuous operating voltage	U_c		3 x 275 / 480 V AC	
Rated load current	I_L	80 A	125 A	160 A
Combined impulse	U_{oc}		6 kV (L/N, L/PE); 10 kV (N/PE)	
Voltage protection level at U_{oc}	U_p		< 850 V (L/N); < 1,5 kV (L/PE); < 1,2 kV (N/PE)	
Nominal discharge current I_n (8/20)	I_n		3 kA (L/N, L/PE); 5 kA (N/PE)	
Temporary overvoltage (TOV)	U_T		337 V/5 s (L/N); 1200 V/0,2 s (N/PE)	
Response time	t_A		< 25 ns (L/N); < 100 ns (L/PE, N/PE)	
Asymmetrical attenuation of filter (band-stop filter)			min. 80 dB at 4 MHz min. 40 dB (0,15 ÷ 30 MHz)	
Power loss at winding temp. 20 °C		< 15 W	< 20 W	< 25 W
Back-up fuse		80 A	125 A	160 A
LPZ			2-3	
Housing material			Metal plate 1 mm	
Degree of protection of enclosure			IP20	
Operating temperature range	9		-40 °C ... +55 °C	
Cross-section of the connected conductors		25 mm ²	35 mm ²	50 mm ²
Tightening moment of clamps			10 Nm	
The mounting method / operating position			By screws M4 on chassis / any	
Failure signalisation			light off - ok / light on - fault	
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm ²)			AC: 250 V / 1,5 A, DC: 250 V / 0,1 A	
Lifetime			min. 100 000 h	
Weight		1950 g	2820 g	2820 g
Article number		77 30 193	77 30 194	77 30 195