

# Surge Arrester TYPE 3

TYPE  
3

VARISTOR

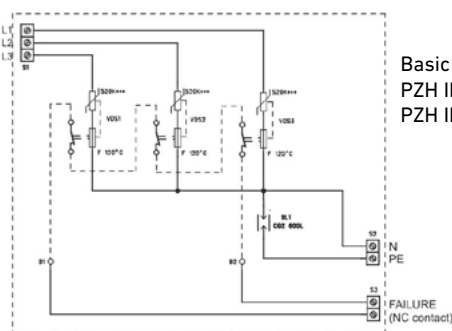
TYPE 3 / CLASS III / TN-S / TN-C / TT / CE



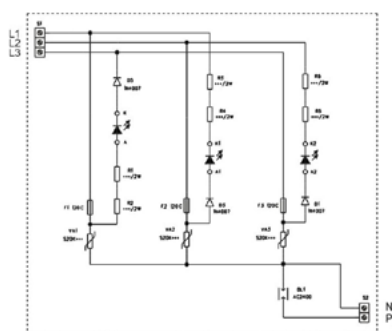
## PZH III V 3+1/275/5, PZH III V 3+1/275/5 S

PZH III V 3+1 is a three-phase surge arrester type 3 according to EN 61643-11 suitable for use in TNS, TNC and TT systems. These are parallel devices intended for protection of electronic appliances against impulse surge. All varistors in PZH III V 3+1 device are fitted with thermal fuses to prevent short and also permanent overloading. PZH III V 3+1 units are to be connected as near to the protected electronic appliance as possible. The right function of PZH III V 3+1/275/5, PZH III V 3+1/480/5 and PZH III V 3+1/600/5 devices is indicated by three green LED diodes. The function failure of PZH III V 3+1/275/5 S, and PZH III V 3+1/480/5 S devices is indicated by target disconnection of mechanical thermal fuses which react to varistors overheating above c. 120°C. If one of the three thermal fuses reacts, the non-potential contact FAILURE disconnects at the same time (in case of S version only).

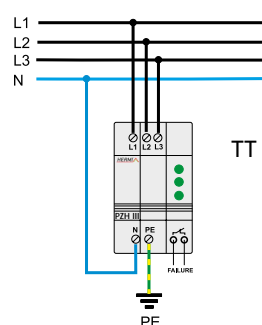
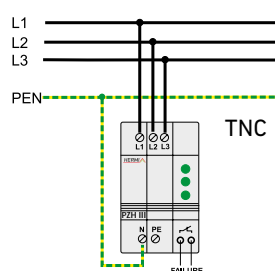
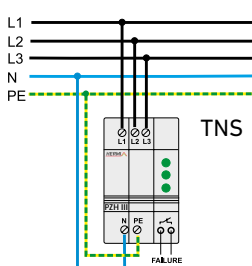
TYPE		PZH III V 3+1/275/5	PZH III V 3+1/275/5 S
Nominal voltage	$U_N$	230 V AC	
Max. continuous operating voltage	$U_C$	275 V AC	
Nominal discharge current $I_n(8/20)$	$I_n$	3 kA (L/N, L/PE); 5 kA (N/PE)	
Combined impulse	$U_{oc}$	6 kV (L/N,L/PE); 10 kV (N/PE)	
Voltage protection level at $U_{oc}$	$U_p$	1,5 kV (L/N); <1,5 kV (L/PE); < 1,5 kV (N / PE)	
Power loss at winding temp. 20°C		<0,1 W	
Response time	$t_A$	< 25 ns (L/N); < 100 ns (L/PE, N/PE)	
Recommended backup fuse		16 A	
Failure signalisation		light on - ok / light off - failure	pushed in - ok / pushed out - failure
Lifetime		min. 100 000 h	
Weight		140 g	250 g
Article number		<b>77 30 105</b>	<b>77 30 106</b>



Basic circuit diagram of  
PZH III V 3+1/275/5 S,  
PZH III V 3+1/480/5 S



Basic circuit diagram of  
PZH III V 3+1/275/5,  
PZH III V 3+1/480/5,  
PZH III V 3+1/600/5



Recommended connection of  
PZH III V 3+1/275/5,  
PZH III V 3+1/480/5,  
PZH III V 3+1/600/5