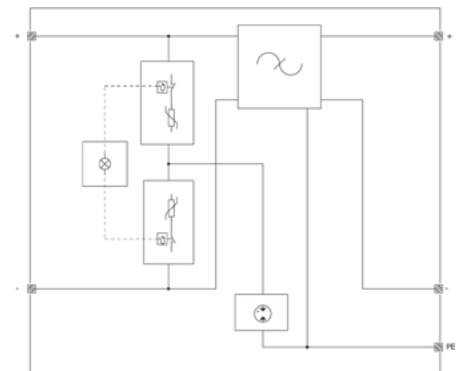
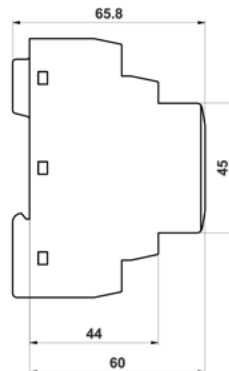
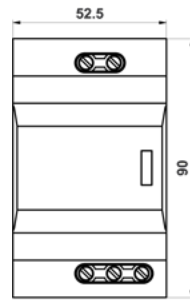


Surge Arrester TYPE 3

TYPE
3

VARISTOR & EMC / EMI FILTER

TYPE 3 / CLASS III / DC / CE



PZH R3 HF16/*VDC

PZH R3 HF16/*VDC is a surge arrester with integrated high-frequency filter designed for DC power supply systems. PZH R3 HF16/*VDC contains an improved thermal fuse which ensures timely disconnection of the device from the power grid during overheating and thus prevents damage to the PZH R3 HF16/*VDC. Activation of the thermal fuse is signalled by an integral indicator light. The PZH R3 HF16/*VDC is a type T3 two-port surge arrester and has been tested according to standards EN 61643-11 (IEC 61643-11:2011). According to standard EN 62305 (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 HF16/*VDC are designed to be mounted on a 35 mm DIN rail using a metal clip.

Manufacturer's recommendation: Install the PZH R3 HF16/*VDC as close to the device to be protected as possible (no further than 5 m). There must be Hermi's lightning and surge arrester T1 and T2 installed before the PZH R3 HF16/*VDC.

TYPE		PZH R3 HF 16/6VDC	PZH R3 HF 16/12VDC	PZH R3 HF 16/24VDC	PZH R3 HF 16/48VDC	PZH R3 HF 16/60VDC	PZH R3 HF 16/120VDC	PZH R3 HF 16/220VDC
Test class according to EN 61643-11 ed.2 (IEC 61643-11:2011)		TYPE 3, CLASS III						
System		DC						
Nominal voltage	U_N	6 V =	12 V =	24 V =	48 V =	60 V =	120 V =	220 V =
Max. continuous operating voltage	U_C	7,2 V =	14,4 V =	28,8 V =	57,6 V =	72 V =	144 V =	264 V =
Nominal discharge current I_n (8/20)	I_n	2 kA						3 kA
Rated load current	I_L	16 A						
Combined impulse	U_{OC}	4 kV						6 kV
Voltage protection level at U_{OC} (+/-)	U_p	< 350 V	< 350 V	< 400 V	< 500 V	< 550 V	< 900 V	< 1300 V
Voltage protection level at U_{OC} (+/-/PE)		< 300 V					< 600 V	< 800 V
Response time	t_A	< 25 ns (+/-) < 100 ns (+/-/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		< 3,5 W						
Back-up fuse		16 A						
LPZ		2-3						
Housing material		Polyamid PA6, UL94 V-0						
Degree of protection of enclosure		IP20						
Operating temperature range	θ	-40 °C ... +55 °C						
Cross-section of the connected conductors		2,5 - 4 mm ² Cu						
The mounting method / operating position		DIN rail 35 mm / any						
Failure signalisation		optical function signalization target clear - ok optical function signalization target red - fault						
Lifetime		min. 100 000 h						
Weight	m	180 g						
Article number		77 30 142	77 30 143	77 30 144	77 30 145	77 30 146	77 30 147	77 30 148