

SURGE ARRESTERS – VARISTOR & EMC/EMI filter

PI-k and PD*DS are a single-phase surge arresters type 3 with a high-frequency filter according to EN 61643-11 and IEC 61643-1. They are produced for nominal current within the range of 8, 16, 25, 32, 50, 80, 120 and 150A for application use in TNS systems. The types PI-k8, 16, 25, 32A and PD*DS are constructed for mounting on DIN rail 35mm. The types PI-k50, 63, 80, 120 and 150A are produced in basic versions for mounting straight onto the construction of switchboard by four screws M4. PI-k and PD*DS are designed for protection of single-phase electronic appliances in L.V. supply systems against impulse surge and high-frequency disturbance. This complex range is produced for nominal voltage within the range of 6, 12, 24, 48, 60, 80, 110, 120, 130, 160 and 230V (AC/DC).

The types PI-k8, 16, 25 and 32 are fitted with a green LED diode signaling the right functioning, types PI-k16 DS, PI-k25 DS and PD*DS indicate the failure by target disconnection of mechanical thermal fuses.

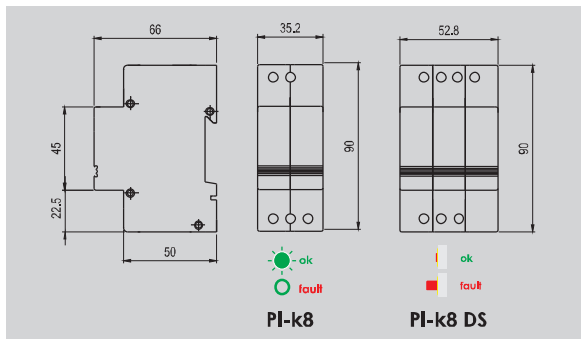
2-stage MOV surge arrester & EMC/EMI filter



TYPE 3



PI-k8, PI-k8 DS



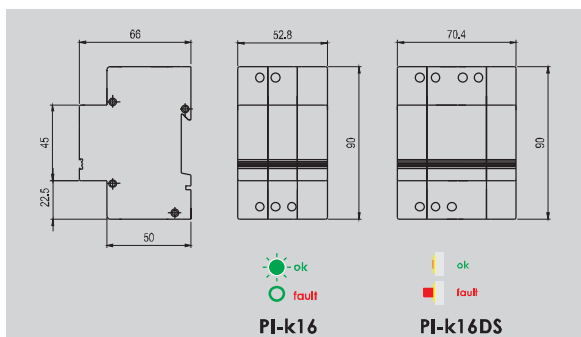
PI-k8

PI-k8 DS

2-stage MOV surge arrester & EMC/EMI filter



PI-k16, PI-k16 DS



PI-k16

PI-k16DS

Type PI-k8/PI-k8 DS

Nominal voltage	U_N	230 V AC
Max. continuous operating voltage	U_C	275 V AC
Nominal current	I_N	8 A
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	<850 V (L/N) <1,5 kV (L/PE) <1,2 kV (N/PE)
Asymmetrical attenuation of filter (band-stop filter)		min. 80 dB at 4 MHz min. 40 dB (0,15 - 30 MHz)
Filters constants	C_x C_y L	150 nF 22 nF 1,2 mH
Power loss at winding temp. 20°C		<2,2 W
Response time	t_A	<25 ns (L/N) <100 ns (L/PE, N/PE)
Recommended backup fuse		6 A
Lifetime		min. 100.000 h
Weight	m	130 g
Article number		
PI-k8		30 080
PI-k8 DS		30 082

Type PI-k16/PI-k16 DS

Nominal voltage	U_N	230 V AC
Max. continuous operating voltage	U_C	275 V AC
Nominal current	I_N	16 A
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	<850 V (L/N) <1,5 kV (L/PE) <1,2 kV (N/PE)
Asymmetrical attenuation of filter (band-stop filter)		min. 80 dB at 4 MHz min. 40 dB (0,15 - 30 MHz)
Filters constants	C_x C_y L	220 nF 22 nF 1,8 mH
Power loss at winding temp. 20°C		<3,5 W
Response time	t_A	<25 ns (L/N) <100 ns (L/PE, N/PE)
Recommended backup fuse		16 A
Lifetime		min. 100.000 h
Weight	m	170/224 g
Article number		
PI-k16		30 004
PI-k16 DS		30 027