



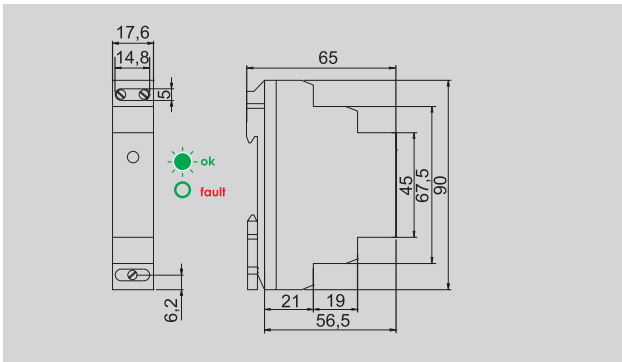
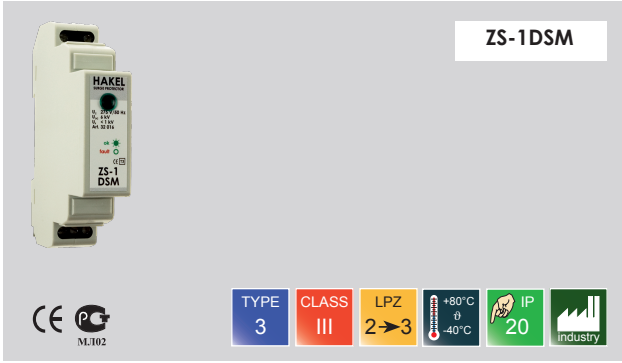
SURGE ARRESTERS - VARISTOR

ZS-1DSM is a single-phase surge arrester type 3 according to EN 61643-11 suitable for use in TNS and TN-C systems. It is designed for universal application for protection of electrical appliances connected to L.V. supply system against impulse surge effects. The right function is indicated by fitted green LED diode. The connection to L.V. supply system is provided by means of screw terminals.

MOV + GDT surge arrester



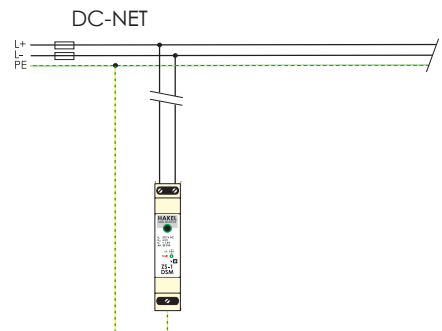
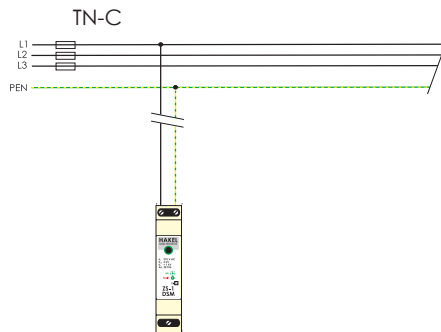
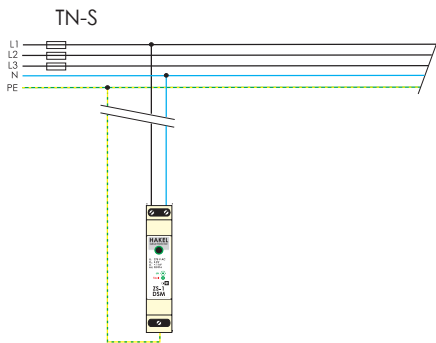
TYPE 3



Type ZS-1DSM		
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 kV (L/N)
		<1,2 kV (N/PE)
Power loss at winding temp. 20°C		<0,5 W
Response time	t_A	<25 ns (L/N)
Recommended backup fuse		16 A
Temporary overvoltage (TOV)	U_T	335V/5 s (L/N)
		1200V+ U_0 /200 ms (L/PE)
Lifetime		min. 100.000 h
Weight	m	45 g
Article number		32 016

NOTE: According to customer demand Hakel company produces these devices in range from 24V to 275V AC or V DC.

Recommended connection of ZS-1DSM



Basic circuit diagram of ZS-1DSM

