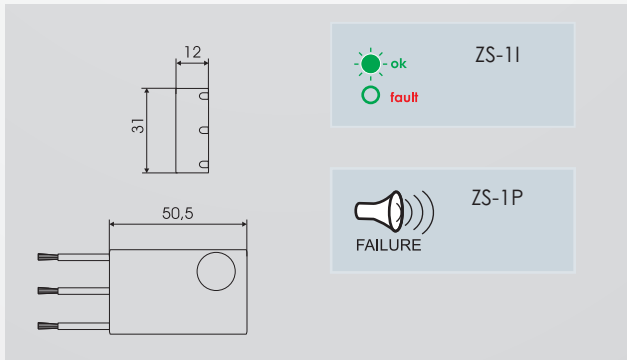
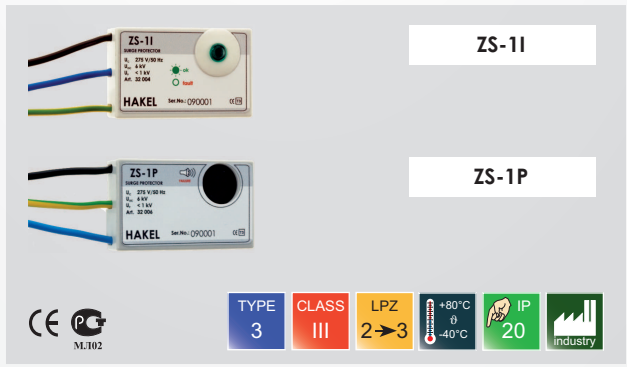




SURGE ARRESTER - VARISTOR

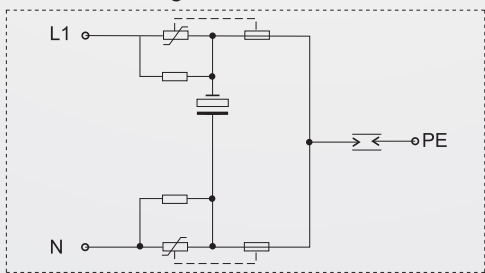
ZS-11, ZS-1P are surge arresters type 3 according to EN 61643-11 and IEC 61643-1 designed for installation into electrical installation systems, e.g.: cable ducts and flush-mounted sockets as an additional protection. These devices are suitable supplements of socket distribution which are protected by PI-k protector. The right function of ZS-11 type is indicated by green LED diode. When the indicator is off, the device must be replaced or technically checked. ZS-1P contains an acoustic fault indicator (buzzer).

MOV + GDT surge arrester

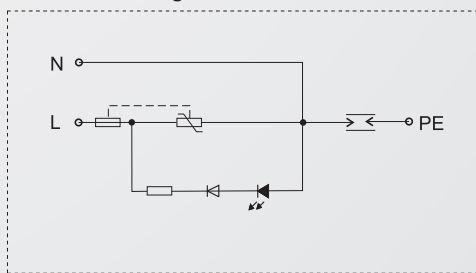


Type ZS-11/ZS-1P		
Nominal voltage	U_N	230 V AC
Max. continuous operating voltage	U_C	275 V AC
Nominal discharge current $I_n(8/20)$	I_n	3 kA (L/N, L/PE)
		5 kA (N/PE)
Combined impulse	U_{OC}	6 kV (L/N, L/PE)
		10 kV (N/PE)
		<1 kV (L/N)
Voltage protection level at U_{OC}	U_P	<1 kV (L/PE)
		<1,2 kV (N/PE)
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
Failure indication	ZS-11	green LED diode
	ZS-1P	inbuilt piezosiren
Weight	m	20/30 g
Article number		
ZS-11		32 004
ZS-1P		32 006

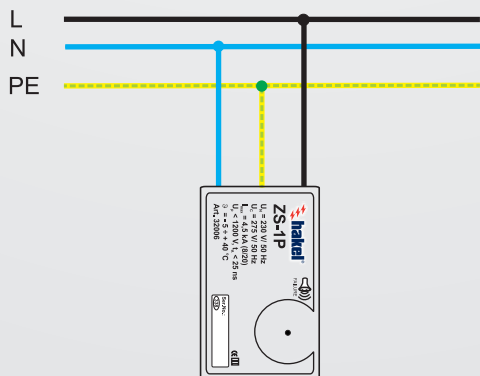
Basic circuit diagram of ZS-1P



Basic circuit diagram of ZS-11



Recommended connection of ZS-1P



Recommended connection of ZS-11

