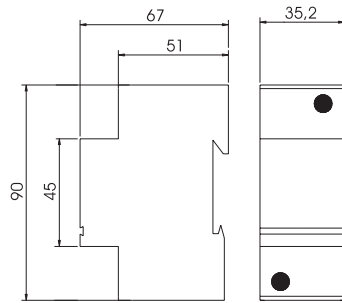
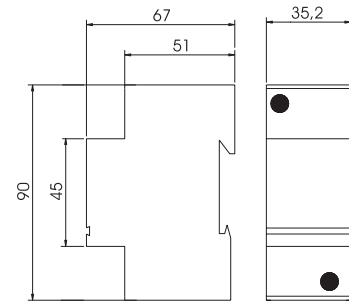


HAKELSTORM



HS45, HS55



HS100

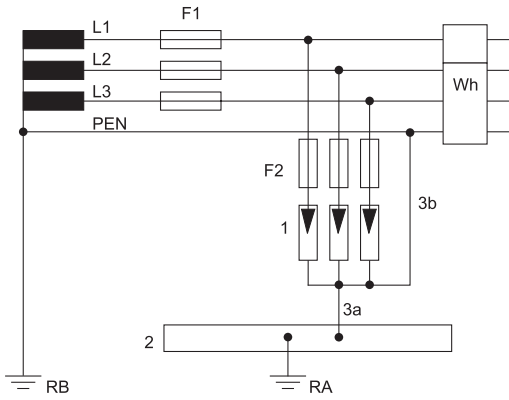
HAKELSTORM

This range of lightning arresters is mainly intended for applications in unmeasured parts of electrical installation within the Lightning Protection Zones Concept at the boundaries LPZ $0_{A(B)} - 1$ (according to IEC 1312-1). The lightning arrester is constructed as an encapsulated denary chamber carbon spark gap with high values of self-extinguished follow currents.

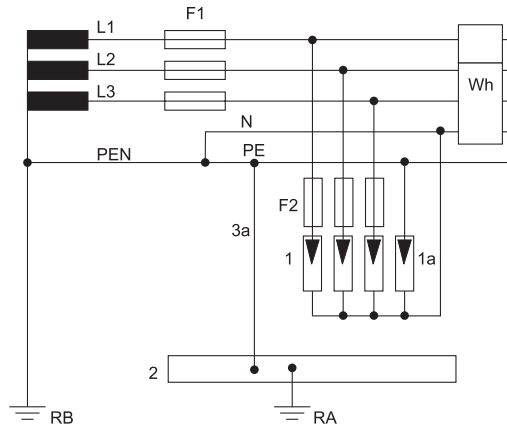
Types HS45 and HS55 are designed for the protection of phase bus bars of L.V. supply system (L/N), type HS100 is mainly designed for the protection of neutral bus bar of L.V. supply system (e.g. N/PE).

Type		HS45	HS55	HS100
Arrester class acc. to IEC 61643-1:1998 and EN 61643-11:2002		I		
Use		L/N, L/PE, L/PEN		N/PE
Nominal voltage	U_N		230V/50Hz	
Max. continuous operating voltage	U_C		275V/50Hz	
Insulation resistance	R_i		>100M Ω	
Max. lightning impulse current $I_{imp}(10/350)$	I_{imp}	45kA	55kA	120kA
Charge	Q	22As	27As	50As
Specific energy	W/R	500kJ/ Ω	800kJ/ Ω	2500kJ/ Ω
Voltage protection level at I_{imp}	U_P	<2,5kV	<4kV	<2kV
Follow current extinguishing capability at U_C	I_f	40kA _{rms}	40kA _{rms}	<300A _{rms}
Response time	t_A		<100ns	
Recommended back-up fuse		315AgL/gG		-
Operating temperature range	ϑ	-40 to +80°C		
Cross-section of the connected conductors (at tightening moment of clamps 4Nm)		6÷35mm ² (solid) 6÷25mm ² (flexible)		
Protection type		IP 20		
Mounting on		DIN rail 35mm		
Housing material		SLOVAMID 6FRC2		
Colour		blue		
Weight	m	224g	224g	231g
Article number		10 050	10 055	10 100

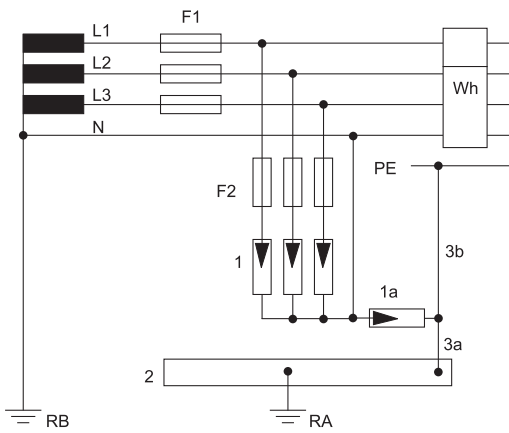
System TN-C



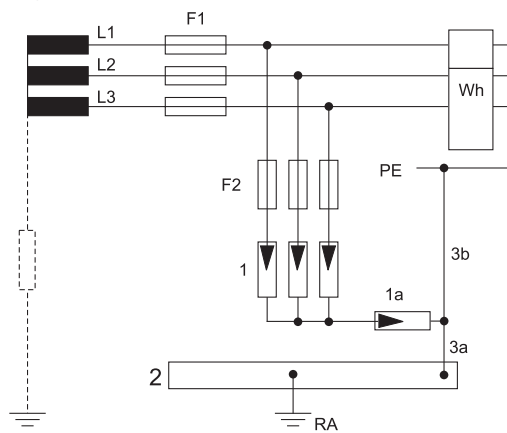
System TN-C-S



System TT



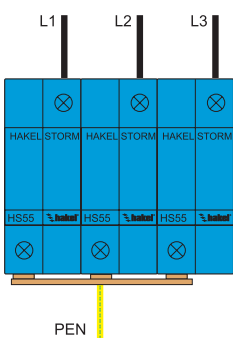
System IT



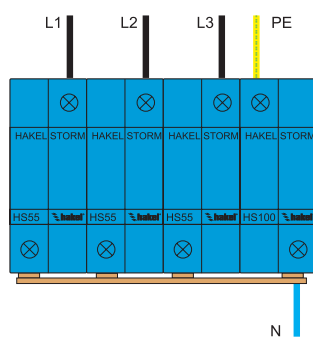
- 1 Chamber carbon spark gap HS45 or HS55
- 1a Single carbon spark gap HS100
- 2 Main equipotential bus bar
- 3a, 3b Grounding wires for arresters
- F1 Main back-up fuse of service main
- F2 Recommended back-up fuse 315AgL/gG (only if the main back up fuse F1 is fitted with back up fuses $\geq 500\text{AgL/gG}$)
- RA Grounding of the equipment
- RB Grounding system

Mounting on DIN rail 35mm

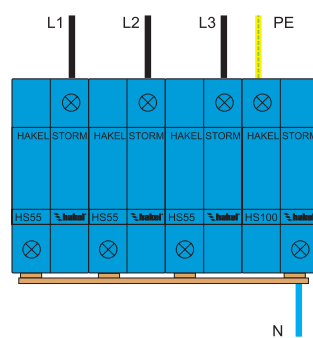
System TN-C



System TN-S



System TT



System IT

