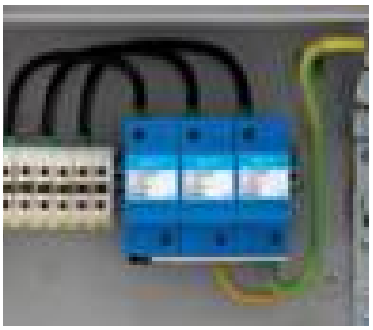
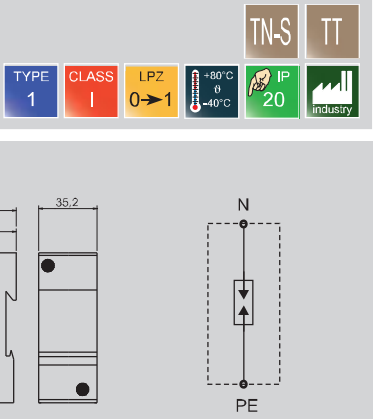


1 spark gap

hakel

HS100



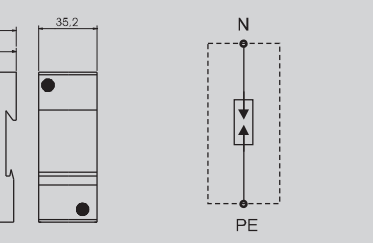
HS100 is a total current spark gap type 1 according to EN 61643-11 and IEC 61643-1 and is intended for use in TNS and TT systems (3+1 or 1+1) at the boundaries of LPZ 0 – 1. HS100 is to be installed between N and PE only.

Type **HS100**		
Max. continuous operating voltage	U_C	255 V AC
Lightning impulse current (10/350)	I_{imp}	100 kA
- charge	Q	50 As
- specific energy	W/R	2500 kJ/Ω
Nominal discharge current (8/20)	I_n	75 kA
Voltage protection level at I_{imp}	U_p	< 2 kV
Temporary overvoltage (TOV)	U_T	1200 V/ 0,2 sec
Response time	t_A	< 100 ns
Follow current interrupting rating at U_C	I_{fi}	100 A_{rms}
Lifetime		min. 100 000 h
Weight	m	360 g
Article number		10 100

1 spark gap

hakel

JK110



JK110 is a total current spark gap type 1 according to EN 61643-11 and IEC 61643-1 and is intended for use in TNS and TT systems (3+1 or 1+1) at the boundaries of LPZ 0 – 1. JK110 is to be installed between N and PE only.

Type **JK110**		
Max. continuous operating voltage	U_C	255 V AC
Lightning impulse current (10/350)	I_{imp}	110 kA
- charge	Q	55 As
- specific energy	W/R	3000 kJ/Ω
Nominal discharge current (8/20)	I_n	75 kA
Voltage protection level at I_{imp}	U_p	< 2 kV
Temporary overvoltage (TOV)	U_T	1200 V/ 0,2 sec
Response time	t_A	< 100 ns
Follow current interrupting rating at U_C	I_{fi}	100 A_{rms}
Lifetime		min. 100 000 h
Weight	m	360 g
Article number		10 110

Application table

Type	Art. No.	TE	Weight (g)	No.of poles	Circuit	I_{imp} (kA)	U_C (V)	Mode of protection
HZ110	10 120	4	1000	1	1+0	110	255	L/N, L/PEN, L/PE
HZ110/500	10 125	4	1000	1	1+0	110	500	L/N, L/PEN, L/PE
HS50-50	10 090	2	225	1	1+0	50	255	L/N, L/PEN, L/PE
HS55	10 055	2	225	1	1+0	50	440	L/N, L/PEN, L/PE
HS100	10 100	2	360	1	0+1	100	255	N/PE
JK110	10 110	2	360	1	0+1	110	255	N/PE

Recommended sets for TNC system

Set	Consisting of	TE	Weight (g)	No. of poles	Circuit	I_{total} (kA)	Application
HS50-50/3+0	3xHS50-50	6	675	3	3+0	-	Transformers, main switchboard and before electrometer
HS55/3+0	3xHS55	6	675	3	3+0	-	Transformers and main switchboard
Recommended sets for TNS system							
HS50-50/4+0	4xHS50-50	6	900	4	4+0	-	Transformers, main switchboard and before electrometer
HS55/4+0	4xHS55	6	900	4	4+0	-	Transformers and main switchboard
Recommended sets for TNS and TT systems							
HS50-50/3+1	3xHS50-50 + 1xHS100	8	1035	4	3+1	100	Transformers, main switchboard and before electrometer
HS55/3+1	3xHS55 + 1xJK110	8	1035	4	3+1	110	Transformers and main switchboard

TE - dividing unit (17,5 mm)

Housing material **-** Polyamide **PA6**

Recommended cable cross-section of the connected conductors (at tightning torque of clamps 4Nm) **35 mm² (solid), 25 mm² (flexible)**