Technical specifications

Design		Lightning arresters		
Order No.		5SD7 412-1	5SD7 413-1	5SD7 414-1
Approvals		KEMA (available soon)		
Requirement category		B to E DIN VDE 06754-6; SPD class I according to IEC 61643-11; SPD type 1 according to EN 61643-1		
Rated voltage U _N	V AC	230/400	230/400	230/400
Rated arrester voltage U _c				
• L/N, N/PE, L/PEN	V AC	350	350	350
Lightning impulse current I_{imp} (10/350 μ s)				
L/N or L/PEN, 1-pole/3-poleN/PE	kA kA	25/100 100	25/75 	25/100 100
Rated discharge surge current I _n (8/20 μs)				
L/N or L/PEN, 1-pole/3-poleN/PE	kA kA	25/100 100	25/75 	25/100 100
Protection level U_p				
• L/N, N/PE, L/PEN	kV	≤ 1.5	≤ 1.5	≤ 1.5
Follow current discharge capacity I_{fi} (AC)				
• L/N or L/PEN • N/PE	kA A	50 100	50	50 100
Response time t _A				
L/N or L/PENL-(N)-PE	ns ns	≤ 100 ≤ 100	≤ 100 	≤ 100 ≤ 100
Max. required back-up protection	Α	315 gL/gG	315 gL/gG	315 gL/gG
Short-circuit strength at max. back-up protection	kA _{rms}	50	50	50
TOV voltage U _T				
• L/N • N/PE	V/s V/ms	415/5 1200/200	415/5 	415/5 1200/200
Temperature range	°C	-40 +80		
Degree of protection		IP20		
Conductor cross-section				
Finely strandedSolid	mm ² mm ²	0.5 25 0.5 35		
Mounting width according to DIN 43880	MW	4	6	8
Remote signaling		yes		
Contact type		Floating CO contact (plug-in)		
Operational voltage, max.	V AC V DC	250 125		
Operational current, max.				
Resistive/inductive load ACResistive/inductive load DC		1 A/1 A 0.2 A/30 mA		
Conductor cross-section				
Finely stranded/solid	mm ²	1.5/1.5		