

Technical specifications

Design	Multipole surge arresters, 350 V						
	without remote signaling			with remote signaling			
Order No.		5SD7 422-0	5SD7 423-0	5SD7 424-0	5SD7 422-1	5SD7 423-1	5SD7 424-1
Approvals		KEMA (available soon)					
Requirement category		C to E DIN VDE 06754-6; SPD class II according to IEC 61643-11; SPD type 2 according to EN 61643-1					
Rated voltage U_N	V AC	230/400	230/400	230/400	230/400	230/400	230/400
Rated arrester voltage U_c							
• L/N or L/PEN	V AC	350	350	350	350	350	350
• N/PE	V AC	264	--	264	264	--	264
Rated discharge surge current I_n (8/20 μ s)							
• L/N or L/PEN, 1-pole/3-pole	kA	20	20/60	20	20	20/60	20
• N/PE	kA	20	--	20	20	--	20
Discharge surge current I_{max} (8/20 μ s)							
• L/N or L/PEN, 1-pole/3-pole	kA	40	40/120	40	40	40/120	40
• N/PE	kA	40	--	40	40	--	40
Protection level U_p							
• L/N or L/PEN	kV	≤ 1.4	≤ 1.4	≤ 1.4	≤ 1.4	≤ 1.4	≤ 1.4
• N/PE	kV	≤ 1.5	--	≤ 1.5	≤ 1.5	--	≤ 1.5
Response time t_A							
• L/N	ns	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25
• N/PE	ns	≤ 100	--	≤ 100	≤ 100	--	≤ 100
Max. required back-up protection	A	125 gL/gG	125 gL/gG	125 gL/gG	125 gL/gG	125 gL/gG	125 gL/gG
Short-circuit strength at max. back-up protection	kA _{rms}	25	25	25	25	25	25
TOV voltage U_T							
• L/N	V/s	415/5	415/5	415/5	415/5	415/5	415/5
• N/PE	V/ms	1200/200	--	1200/200	1200/200	--	1200/200
Temperature range	°C	-40 ... +80					
Degree of protection		IP20					
Conductor cross-section							
• Finely stranded	mm ²	2.5 ... 16					
• Solid	mm ²	0.5 ... 25					
Mounting width according to DIN 43880	mm	26	38	50	26	38	50
Visual function/fault indication		yes					
Remote signaling		no	no	No	yes	yes	yes
Contact type		--	--	--	Floating CO contact (plug-in)		
Operational voltage, max.	V AC V DC				250 125		
Operational current, max.					1 A/1 A 0.2 A/30 mA		
Conductor cross-section					1.5/1.5		
• Finely stranded/solid	mm ²						