

Overview

Surge arresters type 2 are used downstream of lightning arresters type 1 in main distribution boards or sub-distribution boards. They protect low-voltage systems against transient overvoltages, such as those triggered by switching operations.

A thermal isolating arrester for the varistors offers a high degree of protection against overload. The protective modules are available as connectors. The surge arresters have an optional remote signaling contact, which signals if the device fails.

Technical specifications

		Standard design							
		N-PE		5SD7481-1	5SD7463-0 5SD7463-1	5SD7464-0 5SD7464-1	5SD7473-1	5SD7483-5	
		5SD7481-0	5SD7461-0 5SD7461-1						
Standards Approvals		IEC 61643-11; EN 61643-11 KEMA						--	KEMA, UL/cUL
Rated voltage U_N	V AC	240/415	240/415	400/690	240/415	240/415	400/690	554/960	
Rated arrester voltage U_C									
• L-N or L-(PE)N	V AC	--	350	800	350	350	580	760	
• N-PE	V AC	260	--	--	--	260	--	--	
Rated discharge surge current I_n (8/20 s)									
• L-N or L-(PE)N	kA	--	20	15	20	20	15	15	
• N-PE	kA	20	--	--	--	20	--	--	
Max. discharge surge current I_{max} (8/20 s)									
• L-N or L-(PE)N	kA	--	40	30	40	40	30	30	
• N-PE	kA	40	--	--	--	40	--	--	
Protection level U_p									
• L-(PE)N	kV	--	1.50	5	1.50	1.60	2.50	2.90	
• L-PE	kV	--	--	--	--	1.90	--	--	
• N-PE	kV	1.50	--	--	--	1.50	--	--	
Response time t_A									
• L-N or L-(PE)N	ns	--	25	100	25	25	25	25	
• N-PE	ns	100	--	--	--	100	--	--	
Max. back-up fuse acc. to IEC 61643-1									
• For stub wiring	A	--	125 gL/gG	100 gL/gG	125 gL/gG			100 gL/gG	
• For V-wiring	A	--	--	80 gL/gG	80 gL/gG			80 gL/gG	
Short-circuit withstand current With max. back-up fuse	kA	25							
Temperature range	°C	-40 ... +80							
Degree of protection		IP20, with connected conductors							
Conductor cross-section									
• Finely stranded	mm ²	1.5 ... 25							
• Solid	mm ²	1.5 ... 35							
Mounting width acc. to DIN 43880	MW	1	1	2	3	4	3	3	
Visual function/fault indication		Yes							