

Power fuses

SMD-1A s&c

34,5 / 46 / 69kV



General description

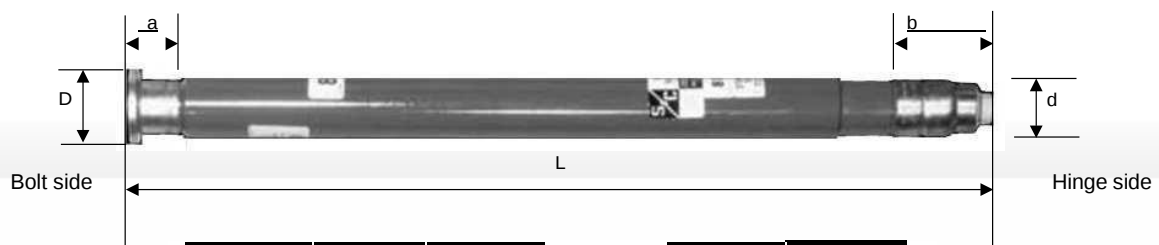
- S&C SMD-1A power fuses are specially designed for outdoor use in MV distribution systems.
- They provide highly effective protection for transformers, capacitor banks and overhead lines.
- They are particularly suitable for protecting small auxiliary voltage transformers. They can also be used as a disconnecter.
- SMD-1A fuses stand the test of time and they are resistant to corrosion, vibrations and overvoltage that heats the element almost to melting point. They do not deteriorate.
- SMD-1 fuses are mounted on fuse bases manufactured by SADES and they incorporate the original live parts (contacts and jaws) made by S&C.
- Although the more standardized layout is vertical, they can be used for horizontal or inverted mounting configurations.



Main characteristics

Breaking capacity at 50Hz.

Rated voltage in kV.					breaking capacity , Amps RMS						breaking capacity in MVA (three-phase symmetrical) Based on X/R=15
SMD-1A fuse				Rated	Operating	Asymmetrical	Symmetrical				
							At points in which X/R=15	At points in which X/R=10	At points in which X/R=5		
34,5				36	23	28 000	17 500	19 250	22 400	700	
					27,6					040	
					34,5					1 000	
46				52	27,6	24 000	15 000				
					34,5						
					46						21 000
69	72,5	34,5	16 000	10 000							
		46									
		69			14 000	8 750	9 600	11 200	1 000		



SMD-1A	L	a		D	d
34,5 kV	715	42	81	63	51
46 kV	817				
69 kV	1019				

Descriptions et references

SMD-1A Power Fuse

Standard Power Fuse						
Rating A ↓	34,5kV Nominal		46kV Nominal		69kV Nominal	
	Reference					
Curve →	Standard S&C TCC 115-1		Standard S&C TCC 115-1		Standard S&C TCC 115-1	
1	444001R1		445001R1		446001R1	
Curve →	Standard S&C TCC 153-1	Slow S&C TCC 119-1	Standard S&C TCC 153-1	Slow S&C TCC 119-1	Standard S&C TCC 153-1	Slow S&C TCC 119-1
3E 5E 7E 10E 13E 15E 20E 25E 30E 40E 50E 65E 80E 100E 125E 150E 175E 200E	444003R2		445003R2		446003R2	
	444005R1		445005R1		446005R1	
	444007R1		445007R1		446007R1	
	444010R1		445010R1		446010R1	
	444013R1		445013R1		446013R1	
	444015R1	454015R1	445015R1	455015R1	446015R1	456015R1
	444020R1	454020R1	445020R1	455020R1	446020R1	456020R1
	444025R1	454025R1	445025R1	455025R1	446025R1	456025R1
	444030R1	454030R1	445030R1	455030R1	446030R1	456030R1
	444040R1	454040R1	445040R1	455040R1	446040R1	456040R1
	444050R1	454050R1	445050R1	455050R1	446050R1	456050R1
	444065R1	454065R1	445065R1	455065R1	446065R1	456065R1
	444080R1	454080R1	445080R1	455080R1	446080R1	456080R1
	444100R1	454100R1	445100R1	455100R1	446100R1	456100R1
	444125R1	454125R1	445125R1	455125R1	446125R1	456125R1
	444150R1	454150R1	445150R1	455150R1	446150R1	456150R1
	444175R1	454175R1	445175R1	455175R1	446175R1	456175R1
	444200R1	454200R1	445200R1	455200R1	446200R1	456200R1

REMARQUE : The reference, nominal voltage, type of curve and rating is engraved on the hinge side of the base.

Min. ratings for three-phase transformer-primary fuses

Nominal voltage (kV)	34,5		46		69	
Transformer Power (kVA)	Nom. Current (A)	Rating (A)	Nom. Current (A)	Rating (A)	Nom. Current (A)	Rating (A)
75	1,26	3E	0,94	3E	0,63	3E
160	2,68	5E	2,01	5E	1,34	3E
315	5,28	7E	3,96	7E	2,64	5E
500	8,4	13E	6,3	10E	4,2	7E
630	10,6	15E	7,92	13E	5,28	10E
800	13,4	20E	10,05	15E	6,7	10E
1.000	16,75	25E	12,6	20E	8,4	13E
1.600	26,8	40E	20,1	30E	13,4	20E
2.000	33,5	50E	25	40E	16,8	25E
2.500	41,88	65E	31,4	50E	20,9	30E
3.150	52,8	80E	39,6	65E	26,4	40E
4.000	67	100E	50,2	80E	33,5	50E
5.000	83,8	125E	62,8	100E	41,9	65E
6.300	105,5	150E	79,1	125E	52,8	80E