

Energy Division

Raychem MV Surge Arresters SPA for Indoor Applications



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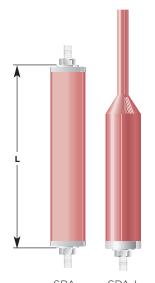


Raychem MV Surge Arresters SPA for Indoor Applications

In air-spaced insulated switchgear systems SPA type

A compact arrester with high mechanical strength. Even there are no sheds the housing material is fully track resistant and able to provide flashover resistance in damp indoor conditions.

The SPA type arrester is also available with a thick-wall insulated integrated line lead, which allows to considerably reduce the clearances between the arresters and to the earth. This line lead is available in lengths of 250mm, 500mm and 750mm. This SPA-I type arrester is the ideal solution when retrofitting compact switchgears with arresters.



Generic technical data:

SPA-xx series		6-36 kV Uc	
Rated discharge	current (8/20µs):	10 kA	
Line discharge c	lass according to IEC 60099-4	Class 1	
Operating duty i	100 kA		
Long duration cu	400 A		
10 second tempo	1.25		
High current sho	rt circuit: (pre-failing method)		
(Safe non-shattering failure mode)		16 kA	
Energy	line discharge impulse	2.6 kJ/kV Uc	
	high current impulse	5.3 kJ/kV Uc	

	SPA	SPA-I	
SPA / SPA-I		Height L	
		(mm)	
SPA-06		138	
SPA-09		168	
SPA-10		177	
SPA-12		200	
SPA-15		299	_
SPA-18		329	
SPA-21		361	
SPA-24		393	
SPA-27		491	
SPA-30		522	
SPA-33		554	
SPA-36		586	

Mechanical strength data

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Cantilever	200 Nm
Tensile	1000 N
Torque	58 Nm

Protective Characteristics

SPA / SPA-I	Uc	Ur kV	Ures ir	Ures in kV when tested to impulse waveforms					
	kV		Lightning (8/20µs)			Steep lightning (1/20µs)	Switching (30/60µs)		
			5kA	10kA	20kA	40kA	10kA	125A	500A
SPA-06	6	7.5	18.6	20.0	22.4	26.2	21.8	13.8	14.8
SPA-09	9	11.0	27.9	30.0	33.6	39.3	32.7	20.6	22.2
SPA-10	10	12.5	31.0	33.3	37.4	43.7	36.3	22.9	24.7
SPA-12	12	15.0	37.2	40.0	44.9	52.4	43.6	27.5	29.6
SPA-15	15	18.0	46.5	50.0	56.1	65.5	54.5	34.4	37.0
SPA-18	18	22.0	55.8	60.0	67.3	78.6	65.4	41.3	44.4
SPA-21	21	26.0	65.1	70.0	78.5	91.7	76.3	48.1	51.8
SPA-24	24	30.0	74.4	80.0	89.7	105.0	87.2	55.0	59.2
SPA-27	27	33.0	83.7	90.0	101.0	118.0	98.1	61.9	66.6
SPA-30	30	37.0	93.0	100.0	112.0	131.0	109.0	68.8	74.0
SPA-33	33	41.0	102.0	110.0	123.0	144.0	120.0	75.6	81.4
SPA-36	36	45.0	112.0	120.0	135.0	157.0	131.0	82.5	88.8

Uc: Continous Voltage; Ur: Rated Voltage; Ures: Residual Voltage

Arresters for other voltages are available on request.

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