

Energy Division

Raychem MV Surge Arresters RDA for Indoor Applications

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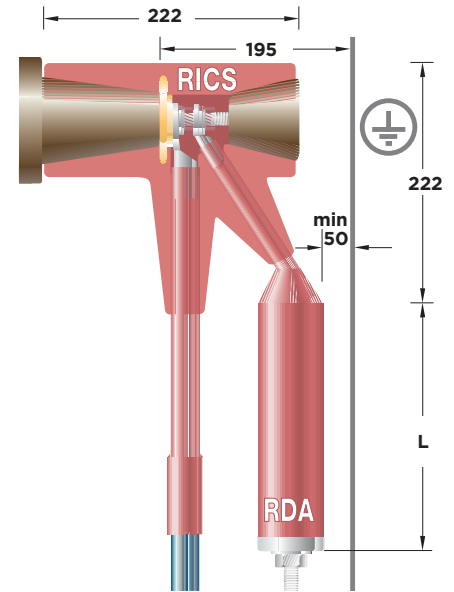
In gas-insulated switchgear systems RDA type

Modern gas-insulated switchgear connected to combined underground and overhead distribution systems are sensitive to effects like transient voltage doubling. An arrester installed right at the cable end will clamp the voltage to a level which does not put the switchgear at risk.

The RDA surge arrester, together with the Raychem RICS connection system for gas-insulated switchgear, facilities a hermetically sealed integration of the arrester and the cable termination to be connected to a switchgear. Compact design and easy installation are the special features of this product line.

Generic technical data:

RDA-xx series	6-24 kV U _c	
Rated discharge current (8/20μs):	10 kA	
Line discharge class according to IEC 60099-4	Class 1	
Operating duty impulse withstand current (4/10μs):	100 kA	
Long duration current impulse (2000μs):	400 A	
10 second temporary overvoltage (U _{TOV} /U _C)	1.25	
High current short circuit: (pre-failing method) (Safe non-shattering failure mode)	16 kA	
Energy	line discharge impulse	2.6 kJ/kV U _c
	high current impulse	5.3 kJ/kV U _c



RDA	Height L (mm)
RDA-06	138+222
RDA-09	168+222
RDA-12	200+222
RDA-15	299+222
RDA-18	329+222
RDA-21	361+222
RDA-24	393+222

Protective Characteristics

RDA	U _c kV	U _r kV	U _{res} in kV when tested to impulse waveforms						
			Lightning (8/20μs)				Steep lightning (1/20μs) 10kA	Switching (30/60μs)	
			5kA	10kA	20kA	40kA		125A	500A
RDA-06	6	7.5	18.6	20.0	22.4	26.2	21.8	13.8	14.8
RDA-09	9	11.0	27.9	30.0	33.6	39.3	32.7	20.6	22.2
RDA-10	10	12.5	31.0	33.3	37.4	43.7	36.3	22.9	24.7
RDA-12	12	15.0	37.2	40.0	44.9	52.4	43.6	27.5	29.6
RDA-15	15	18.0	46.5	50.0	56.1	65.5	54.5	34.4	37.0
RDA-18	18	22.0	55.8	60.0	67.3	78.6	65.4	41.3	44.4
RDA-21	21	26.0	65.1	70.0	78.5	91.7	76.3	48.1	51.8
RDA-24	24	30.0	74.4	80.0	89.7	105.0	87.2	55.0	59.2

U_c: Continuous Voltage; U_r: Rated Voltage; U_{res}: Residual Voltage

Arresters for other voltages are available on request.

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Energy Division – innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lighting controls, power measurement and control.

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