

Energy Division

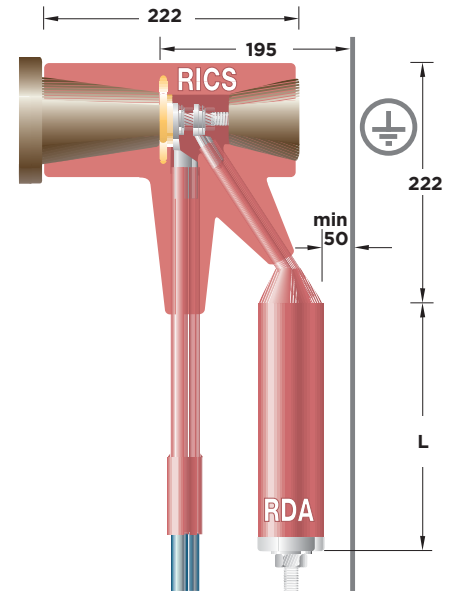
## Raychem MV Surge Arresters RDA for Indoor Applications

# Raychem MV Surge Arresters RDA for Indoor Applications

## 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.



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

## Generic technical data:

RDA-xx series	6-24 kV U <sub>c</sub>	
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 <sub>TOV</sub> /U <sub>C</sub> )	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 <sub>c</sub>
	high current impulse	5.3 kJ/kV U <sub>c</sub>

## Protective Characteristics

RDA	U <sub>c</sub> kV	U <sub>r</sub> kV	U <sub>res</sub> in kV when tested to impulse waveforms						
			Lightning (8/20μs)				Steep lightning (1/20μs)	Switching (30/60μs)	
			5kA	10kA	20kA	40kA		10kA	125A
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<sub>c</sub>: Continuous Voltage; U<sub>r</sub>: Rated Voltage; U<sub>res</sub>: Residual Voltage

Arresters for other voltages are available on request.

While Tyco Electronics and its affiliates referenced herein have made every reasonable effort to ensure the accuracy of the information contained in this catalog, Tyco Electronics cannot assure that this information is error free. For this reason, Tyco Electronics does not make any representation or offer any guarantee that such information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information at any time. Tyco Electronics expressly disclaims any implied warranty regarding the information contained herein, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Tyco Electronics' only obligations are those stated in Tyco Electronics' Standard Terms and Conditions of Sale. Tyco Electronics will in no case be liable for any incidental, indirect or consequential damages arising from or in connection with, including, but not limited to, the sale, resale, use or misuse of its products. Users should rely on their own judgement to evaluate the suitability of a product for a certain purpose and test each product for its intended application. In case of any potential ambiguities or questions, please don't hesitate to contact us for clarification. Raychem, TE (logo) and Tyco Electronics are trademarks of the Tyco Electronics group of companies and its licensors.

**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.**

Tyco Electronics Raychem GmbH  
Energy Division  
Finsinger Feld 1  
85521 Ottobrunn/Munich, Germany

Phone: +49-89-6089-0  
Fax: +49-89-6096345

<http://energy.tycoelectronics.com>

 **Tyco Electronics**  
Our commitment. Your advantage.