

MEDIUM VOLTAGE SURGE ARRESTER RDA SERIES

KEY FEATURES

- Maintenance free
- Superior TOV performance
- High energy handling capability
- Tested in accordance with IEC60099-4
- Superior protection margins
- Excellent cantilever and tensile performance
- Excellent mechanical, vibration and impact withstand capability

TE Connectivity's (TE) Raychem pioneered the development of the compact RDA arrester. It has high mechanical strength and is fully track resistant and can provide flashover resistance in damp indoor conditions.

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 juncture 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, facilitates 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. With over 40 years proven global core of the RDA arrester uses an improved ZnO varistor disk, which has superior thermal and electrical characteristics and stability.

TE's Raychem RDA surge arresters have been designed and tested to meet IEC60099-4 international standards. This new varistor and design combination results in superior energy handling and TOV performance. The wrapped structural construction offers a light weight product with high mechanical strength.

Applications for the RDA include protection of gas-insulated medium voltage switchgear systems and equipment from lightning and switching surge related over-voltages in areas with relatively high iso-keraunic levels.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Medium Voltage Surge Arrester - RDA Series



High quality design and manufacturing.
ISO 9001 and 14001 compliant.

TABLE 1: TECHNICAL DATA

Rated discharge current (8/20 μ s)	10 kA
Line discharge class 1 according to	IEC 60099-4, class 1
Operating duty impulse withstand current (4/10 μ s)	100 kA
Long duration current impulse (2000 μ s)	400 A
10 second TOV, (U_{TOV}/U_c)	1,3
High current short circuit: (pre-failing method) (Safe non-shattering failure mode)	16 kA
Energy	line discharge impulse high current impulse
	2,0 kJ/kV U_c 3,2 kJ/kV U_c
Cantilever	200 Nm
Tensile	1000 N
Torque	58 Nm

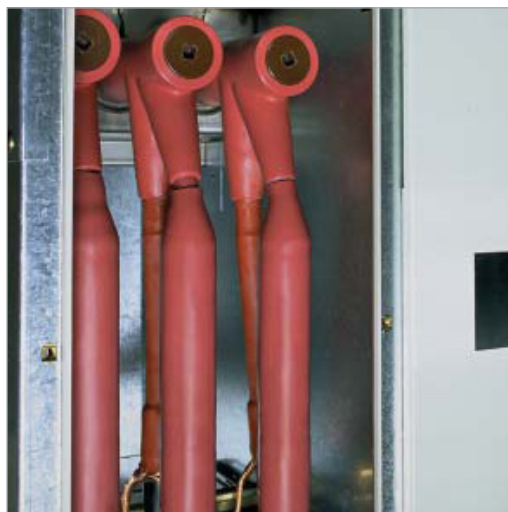


TABLE 2: PRODUCT SELECTION INFORMATION

Description	Height (mm)	U_c kV	U_R kV	Residual Voltage - kV (Using IEC Standard Impulses)				
				Lighting - [8/20 μ s]			Steep Lighting - [1/20 μ s]	Switching - [30/60 μ s]
				at 10 kA	at 20 kA	at 40 kA	at 10 kA	at 500 A
RDA-06	134	6	7,5	19,9	21,9	24,9	21,3	15,6
RDA-07	141	7	8,75	23,2	25,5	29,1	24,9	18,2
RDA-09	163	9	11,25	29,9	32,8	37,4	32,0	23,4
RDA-10	175	10	12,5	33,2	36,4	41,6	35,6	26,0
RDA-12	195	12	15	39,8	43,7	49,9	42,7	31,2
RDA-15	296	15	18,75	49,8	54,6	62,4	53,4	39,0
RDA-18	326	18	22,5	59,8	65,5	74,9	64,1	46,8
RDA-21	356	21	26,25	69,7	76,4	87,4	74,8	54,6
RDA-24	400	24	30	79,7	87,4	99,8	85,4	62,4
RDA-26	398	26	32,5	86,3	94,6	108,2	92,6	67,6

U_c = continuous operating voltage
 U_R = Rated voltage

ORDERING INFORMATION

For accessory range and ordering information please refer to brochure EPP-2131 or e-mail us at surgearresters@te.com.

Example of a complete part description: RDA-12

te.com/energy

©2014 TE Connectivity Ltd. family of companies. All Rights Reserved. EPP-2338-10/14

TE Connectivity and TE connectivity (logo) are trademarks. Other logos, product and/or company names might be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

FOR MORE INFORMATION: TE Technical Support Centers

USA:	+1 (800) 327-6996
France:	+33 3 80 58 3200
UK:	+44 0870-8707500
Germany:	+49 (0) 89 60 89 903
Spain:	+34 916 630 420
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Benelux:	+ 32 16 351 731
China:	+86 (0) 400-820-6015
Ireland:	+353 61 470 800