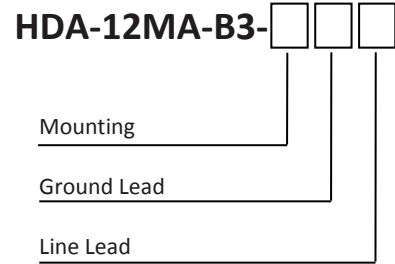
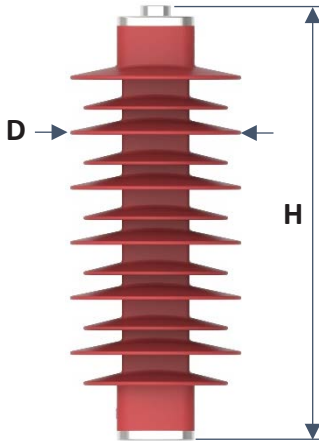


HDA $U_C$ Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA $U_R$ Voltage Range	3 – 51.5 kV	$U_C$ : <b>12.8 kV</b>
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		$U_R$ : <b>16.0 kV</b>
Nominal discharge current ( $I_n$ )	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating $Q_{RS}$	0.5 C	Short circuit rating:
High current impulse (4/10 $\mu$ s)	100 kA	Rated short-circuit ( $I_s$ , 0.2s) 40 kA
Thermal charge transfer rating	1.1 C	Low short-circuit current 600 A
Directly moulded cage design.		Safe non-shattering design.



**Dimensions (mm)**



**Arrester Housing**

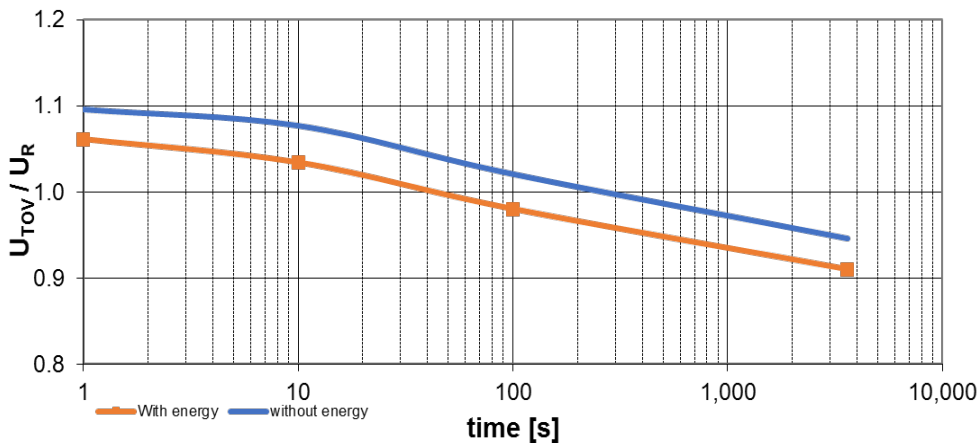
Impulse voltage 1.2/50 $\mu$ s	kV	106
Power frequency voltage	-wet: kV	47
Overall length, (H)	mm	183
Overall diameter (large shed), (D)	mm	119
Flashover distance	mm	176
Creepage Length	mm	380
Weight	kg	1.8
No of Sheds		5
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

**Residual Voltages (kV)**

Lightning current impulse 8/20 $\mu$ s			Steep lightning current impulse 1/20 $\mu$ s	Switching current impulse 30/60 $\mu$ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
39.4	41.9	46.4	45.9	31.6	33.4

**Temporary Overvoltage Capability (TOV)**

1 Sec. TOV: 17.1 kV  
 10 Sec. TOV: 16.6 kV



**Marking**

Raychem

HDA-12MA  
 $U_C$ : 12.8 kV  
 $U_R$ : 16.0 kV  
 MO Surge Arrester  
 50/60 Hz  
 IEC 60099-4  
 $I_s$  40 kA  
 $I_n$  10 kA DH  
 Manufacturing Year

MVSA-772-22/18-0-252

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