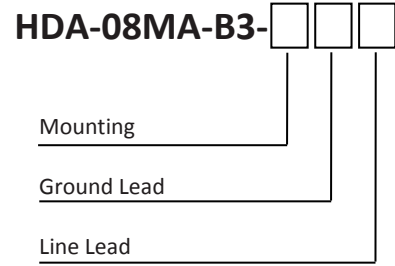
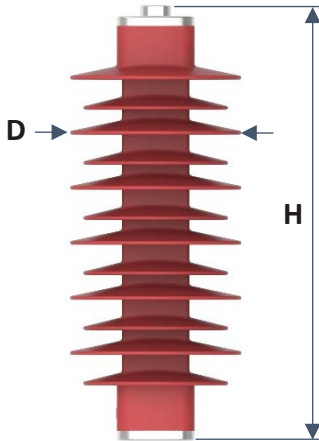


HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 8.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 10.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

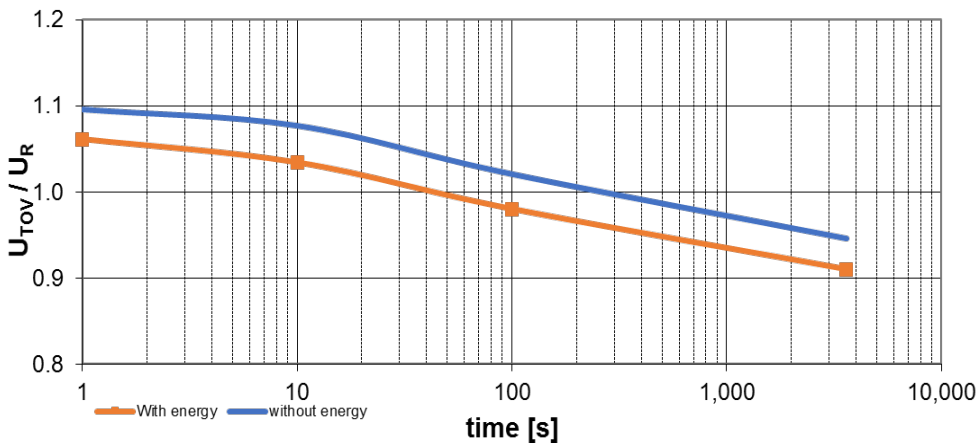
Impulse voltage 1.2/50 μ s	kV	106
Power frequency voltage	-wet: kV	47
Overall length, (H)	mm	183
Overall diameter (large shed), (D)	mm	119
Flashover distance	mm	176
Creepage Length	mm	380
Weight	kg	1.8
No of Sheds		5
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max.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

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
24.6	26.2	29.0	28.7	19.7	20.9

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 10.7 kV
 10 Sec. TOV: 10.3 kV



Marking

Raychem
 HDA-08MA
 U_c : 8.0 kV
 U_R : 10.0 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

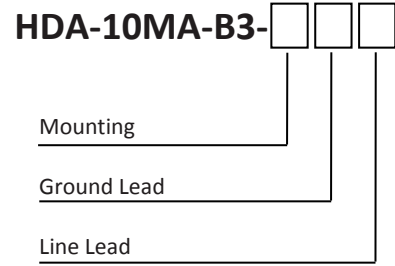
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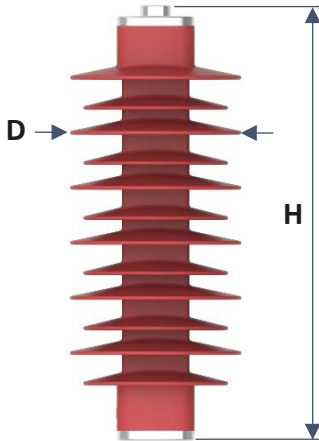
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 10.4 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 13.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

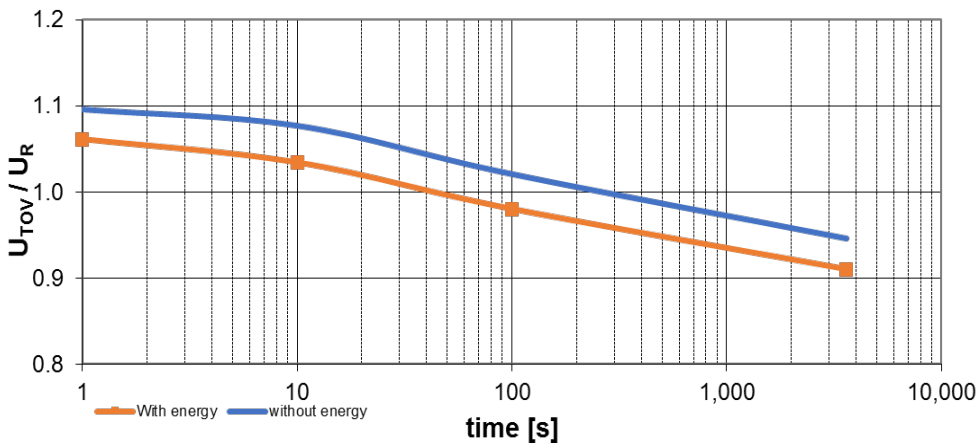
Impulse voltage 1.2/50 μ s	kV	106
Power frequency voltage	-wet: kV	47
Overall length, (H)	mm	183
Overall diameter (large shed), (D)	mm	119
Flashover distance	mm	176
Creepage Length	mm	380
Weight	kg	1.8
No of Sheds		5
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max.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

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
32.1	34.2	37.9	37.4	25.8	27.2

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 13.9 kV
 10 Sec. TOV: 13.4 kV



Marking

Raychem

HDA-10MA
 U_c : 10.4 kV
 U_R : 13.0 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

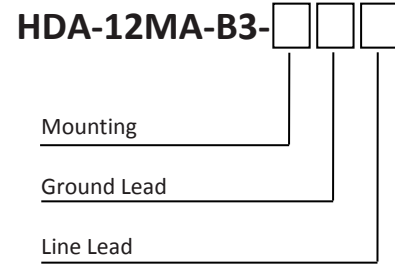
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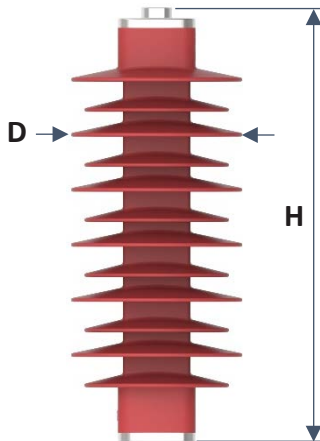
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 12.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 15.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

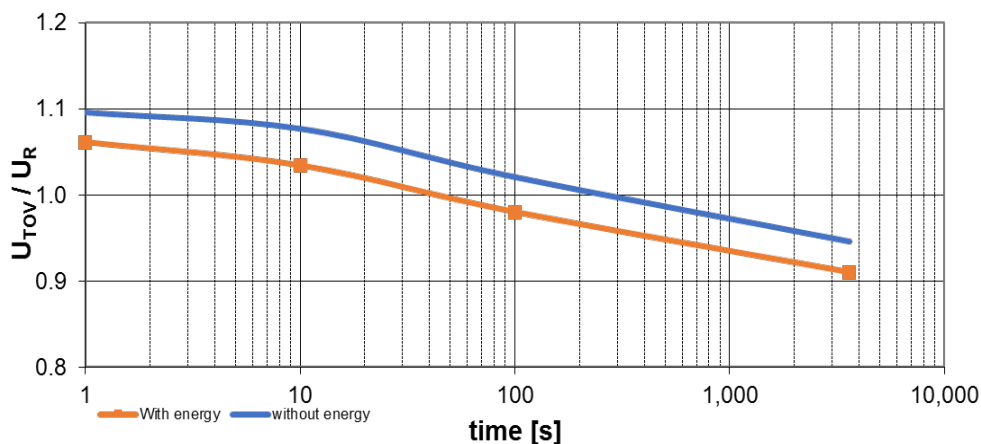
Impulse voltage 1.2/50 μ s	kV	106
Power frequency voltage	-wet: kV	47
Overall length, (H)	mm	183
Overall diameter (large shed), (D)	mm	119
Flashover distance	mm	176
Creepage Length	mm	380
Weight	kg	1.8
No of Sheds		5
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max.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

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
37.1	39.5	43.7	43.3	29.7	31.4

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 16.0 kV
10 Sec. TOV: 15.5 kV



Marking

Raychem

HDA-12MA
 U_c : 12.0 kV
 U_R : 15.0 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

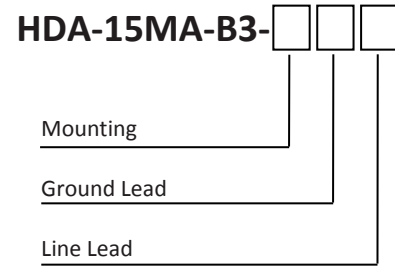
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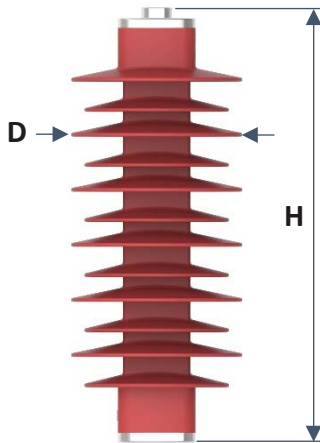
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 15.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 19.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

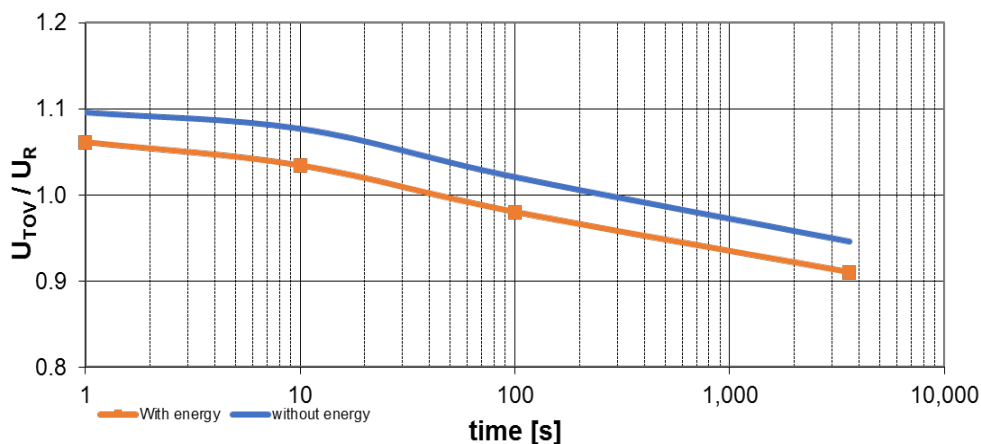
Impulse voltage 1.2/50 μ s	kV	190
Power frequency voltage	-wet: kV	93
Overall length, (H)	mm	316
Overall diameter (large shed), (D)	mm	122
Flashover distance	mm	310
Creepage Length	mm	830
Weight	kg	3.25
No of Sheds		12
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
46.9	49.9	55.2	54.6	37.6	39.7

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 20.3 kV
 10 Sec. TOV: 19.7 kV



Marking

Raychem
 HDA-15MA
 U_c : 15.0 kV
 U_R : 19.0 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

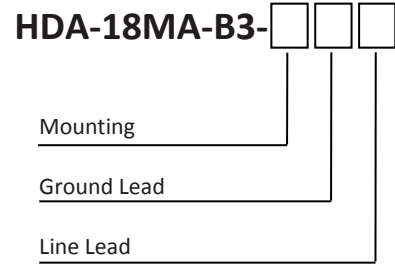
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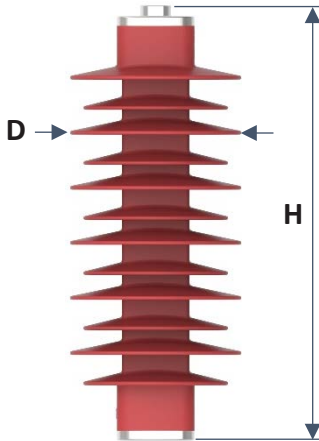
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 18.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 22.5 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

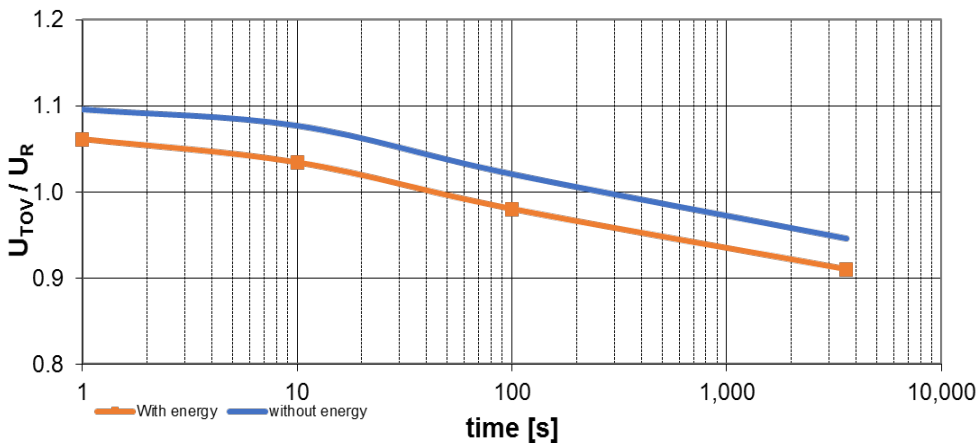
Impulse voltage 1.2/50 μ s	kV	190
Power frequency voltage	-wet: kV	93
Overall length, (H)	mm	316
Overall diameter (large shed), (D)	mm	122
Flashover distance	mm	310
Creepage Length	mm	830
Weight	kg	3.25
No of Sheds		12
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
55.5	59.0	65.3	64.6	44.4	47.0

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 24.0 kV
 10 Sec. TOV: 23.3 kV



Marking

Raychem

HDA-18MA
 U_c : 18.0 kV
 U_R : 22.5 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

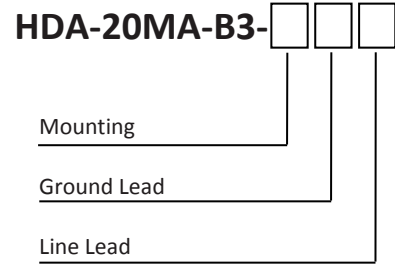
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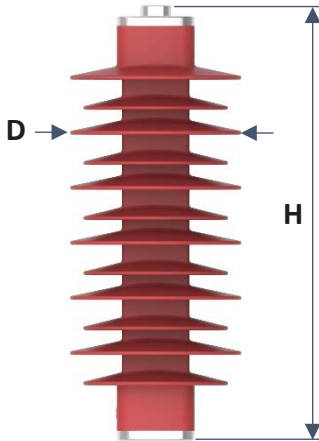
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 20.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 25.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

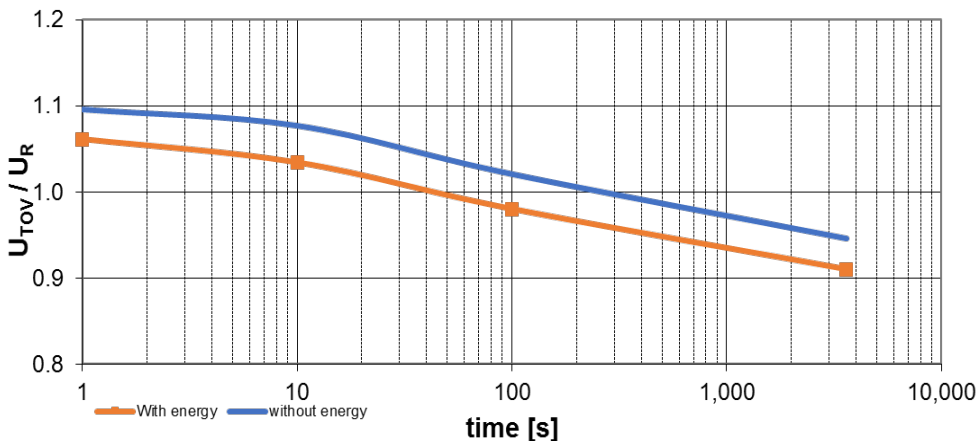
Impulse voltage 1.2/50 μ s	kV	190
Power frequency voltage	-wet: kV	93
Overall length, (H)	mm	316
Overall diameter (large shed), (D)	mm	122
Flashover distance	mm	310
Creepage Length	mm	830
Weight	kg	3.25
No of Sheds		12
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
61.7	65.6	72.6	71.8	49.4	52.2

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 26.7 kV
 10 Sec. TOV: 25.9 kV



Marking

Raychem

HDA-20MA
 U_c : 20.0 kV
 U_R : 25.0 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

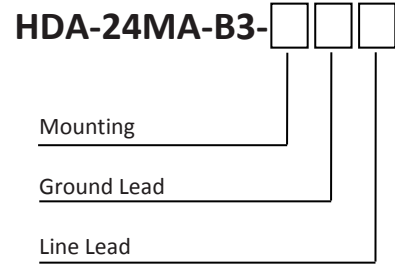
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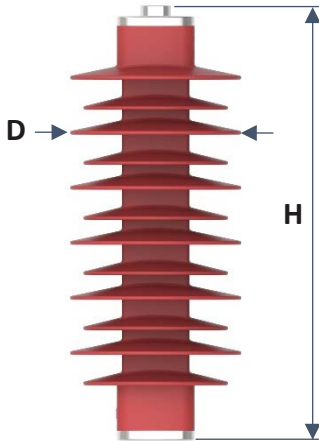
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 24.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 30.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

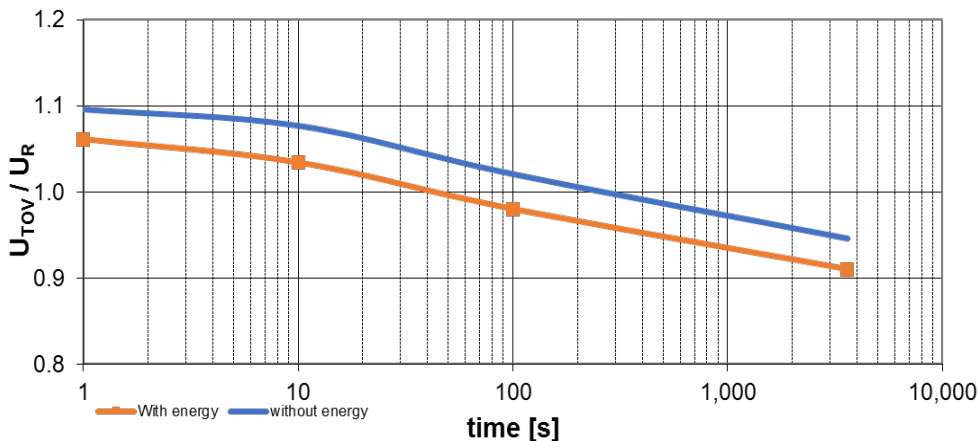
Impulse voltage 1.2/50 μ s	kV	190
Power frequency voltage	-wet: kV	93
Overall length, (H)	mm	316
Overall diameter (large shed), (D)	mm	122
Flashover distance	mm	310
Creepage Length	mm	830
Weight	kg	3.25
No of Sheds		12
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
73.8	78.5	86.9	86.0	59.1	62.5

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 32.0 kV
 10 Sec. TOV: 31.0 kV



Marking

Raychem

HDA-24MA
 U_c : 24.0 kV
 U_R : 30.0 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

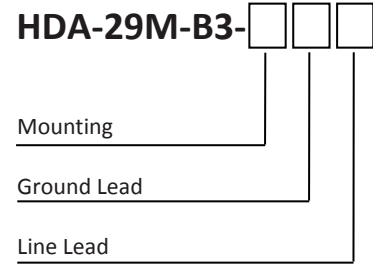
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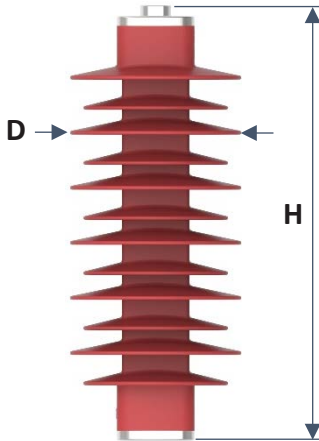
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 29.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 36.5 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

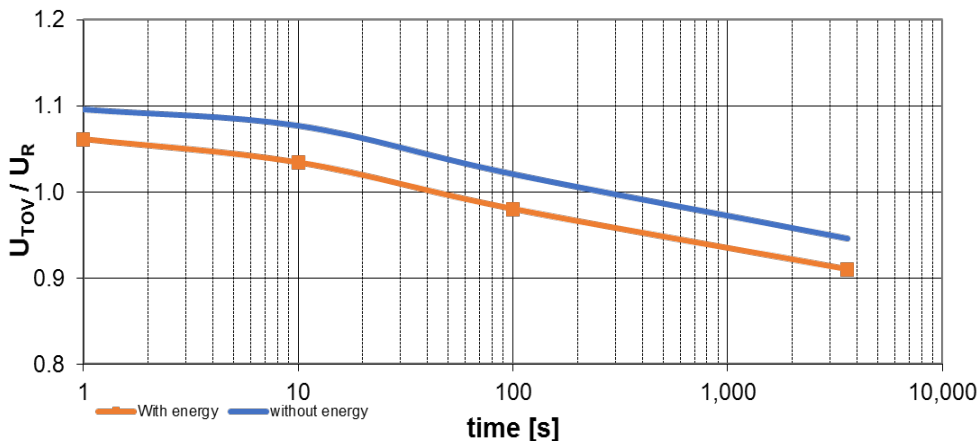
Impulse voltage 1.2/50 μ s	kV	204
Power frequency voltage	-wet: kV	98
Overall length, (H)	mm	343
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	339
Creepage Length	mm	970
Weight	kg	4
No of Sheds		11
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
89.9	95.6	105.8	104.7	72.0	76.1

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 38.9 kV
10 Sec. TOV: 37.7 kV



Marking

Raychem

HDA-29M
 U_c : 29.0 kV
 U_R : 36.5 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

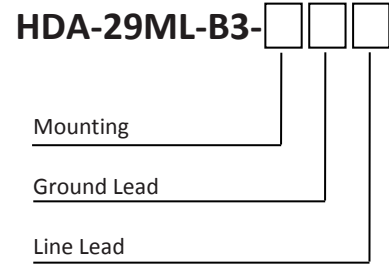
MVSA-784-22/18-0-000

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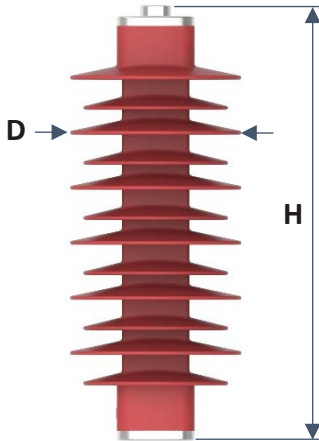
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 29.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 36.5 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

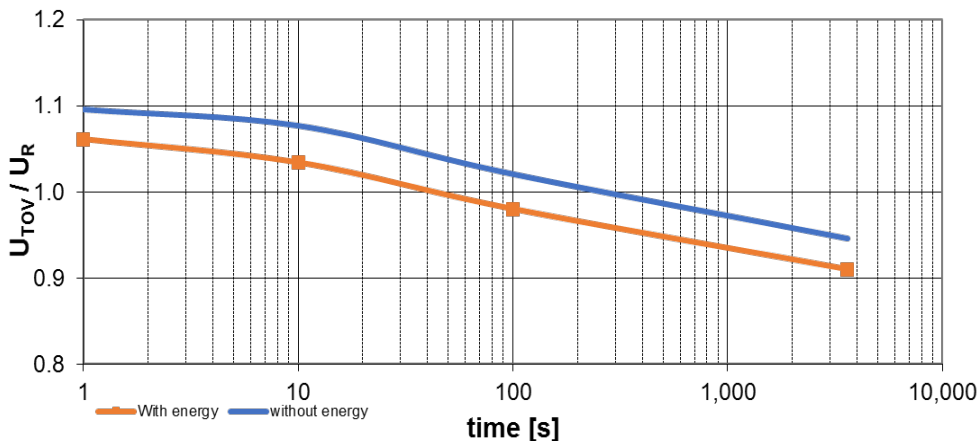
Impulse voltage 1.2/50 μ s	kV	228
Power frequency voltage	-wet: kV	110
Overall length, (H)	mm	383
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	378
Creepage Length	mm	1125
Weight	kg	4.5
No of Sheds		13
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
89.9	95.6	105.8	104.7	72.0	76.1

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 38.9 kV
10 Sec. TOV: 37.7 kV



Marking

Raychem

HDA-29ML
 U_c : 29.0 kV
 U_R : 36.5 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

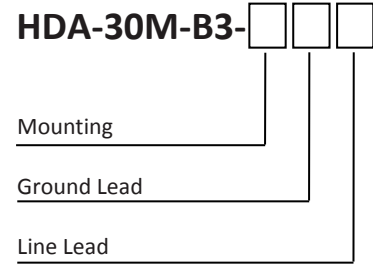
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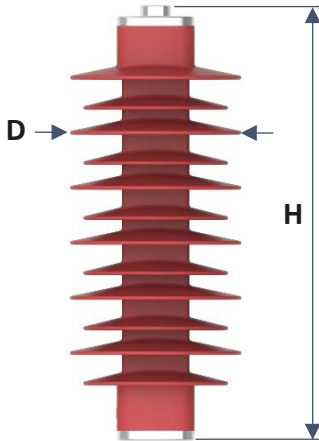
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HDA U_C Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_C : 30.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 37.5 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

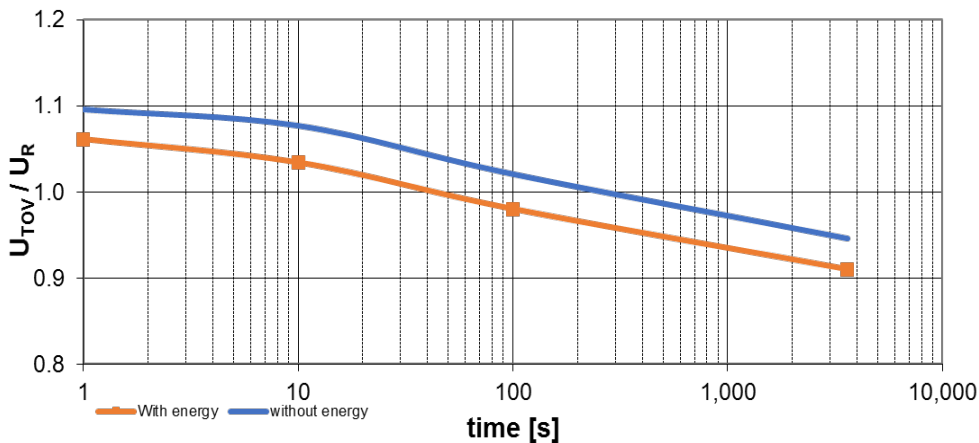
Impulse voltage 1.2/50 μ s	kV	204
Power frequency voltage	-wet: kV	98
Overall length, (H)	mm	343
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	339
Creepage Length	mm	970
Weight	kg	4
No of Sheds		11
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
92.5	98.4	108.9	107.7	74.1	78.3

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 40.0 kV
10 Sec. TOV: 38.8 kV



Marking

Raychem

HDA-30M
 U_C : 30.0 kV
 U_R : 37.5 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

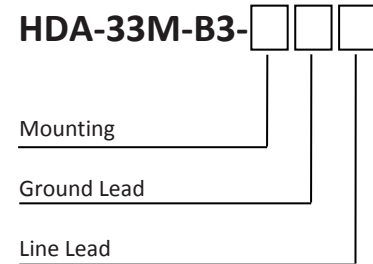
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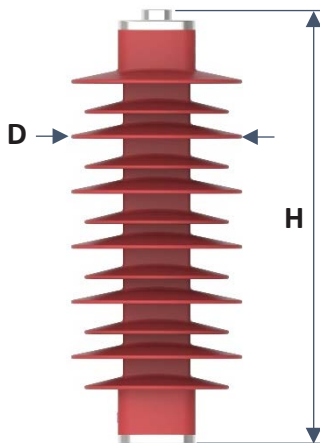
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HDA U_C Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_C : 33.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 41.5 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

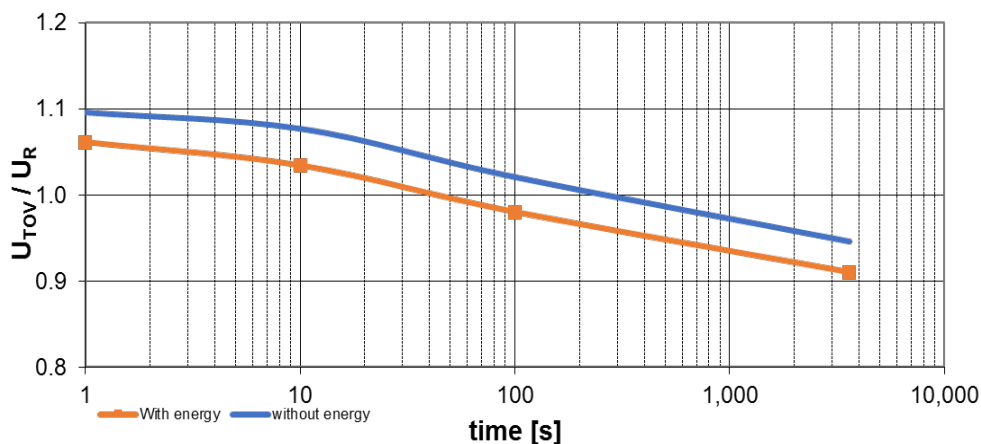
Impulse voltage 1.2/50 μ s	kV	204
Power frequency voltage	-wet: kV	98
Overall length, (H)	mm	343
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	339
Creepage Length	mm	970
Weight	kg	4
No of Sheds		11
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
102.2	108.7	120.3	119.0	81.9	86.5

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 44.3 kV
10 Sec. TOV: 42.9 kV



Marking

Raychem

HDA-33M
 U_C : 33.0 kV
 U_R : 41.5 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

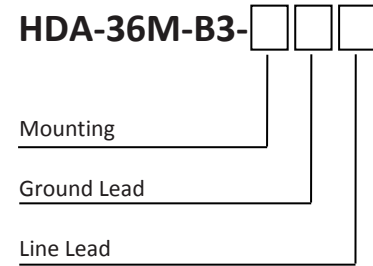
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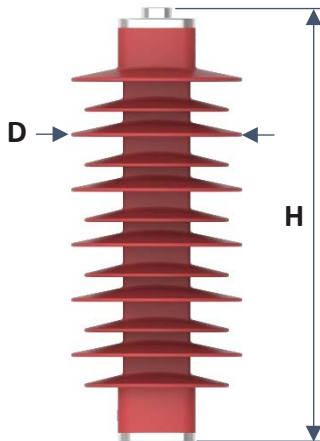
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 36.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 45.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

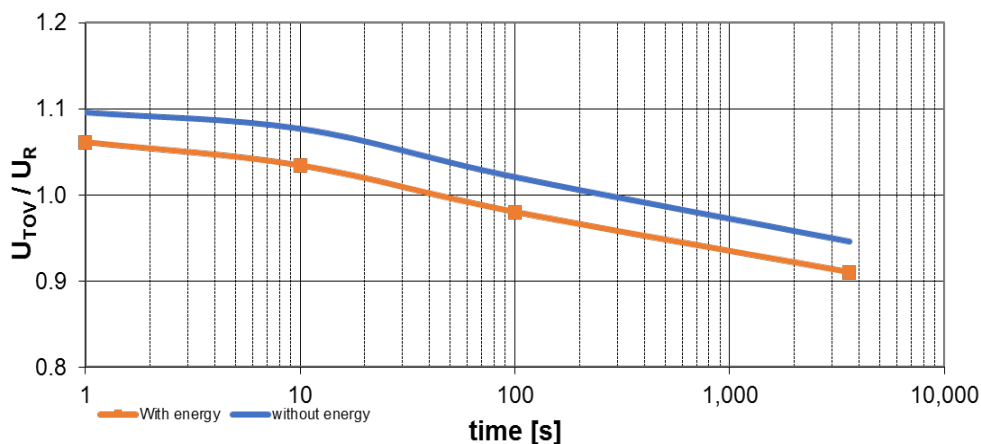
Impulse voltage 1.2/50 μ s	kV	228
Power frequency voltage	-wet: kV	110
Overall length, (H)	mm	383
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	378
Creepage Length	mm	1125
Weight	kg	4.5
No of Sheds		13
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
111.2	118.3	131.0	129.5	89.1	94.2

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 48.0 kV
10 Sec. TOV: 46.5 kV



Marking

Raychem

HDA-36M
 U_c : 36.0 kV
 U_R : 45.0 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

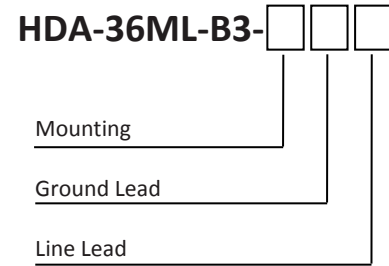
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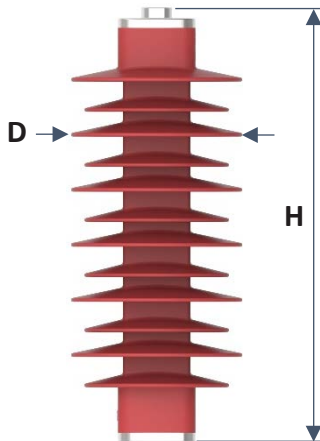
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 36.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 45.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

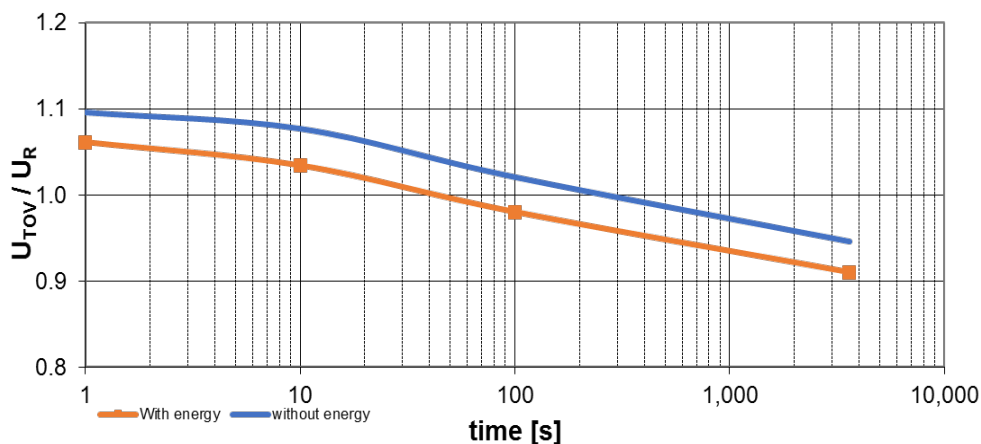
Impulse voltage 1.2/50 μ s	kV	250
Power frequency voltage	-wet: kV	122
Overall length, (H)	mm	423
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	418
Creepage Length	mm	1279
Weight	kg	5
No of Sheds		15
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s	Switching current impulse 30/60 μ s	
5 kA	10 kA	20 kA	10 kA	125 A	500 A
111.2	118.3	131.0	129.5	89.1	94.2

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 48.0 kV
10 Sec. TOV: 46.5 kV



Marking

Raychem

HDA-36ML
 U_c : 36.0 kV
 U_R : 45.0 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

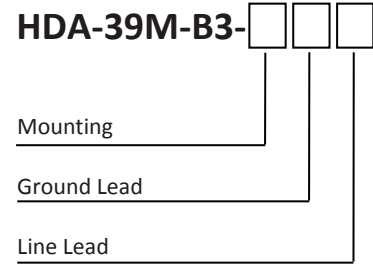
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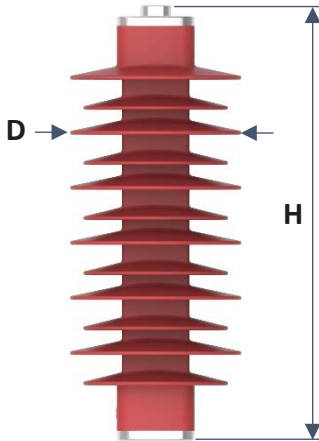
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HDA U_C Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_C : 39.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 49.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

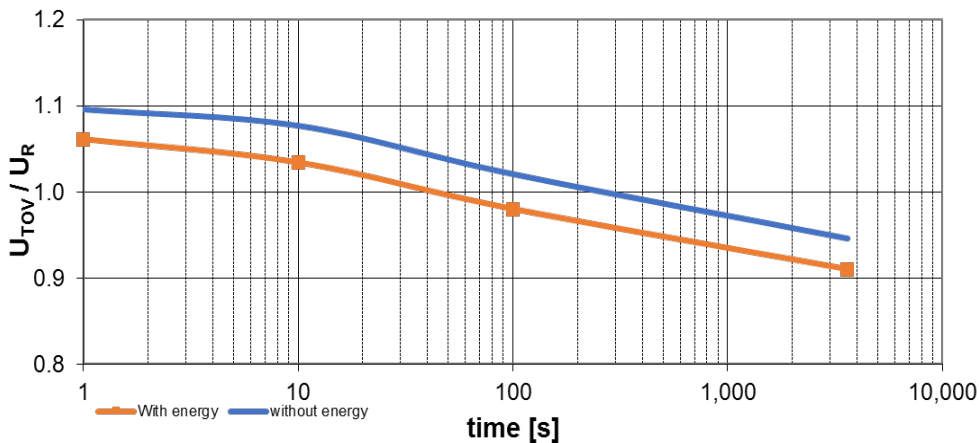
Impulse voltage 1.2/50 μ s	kV	228
Power frequency voltage	-wet: kV	110
Overall length, (H)	mm	383
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	378
Creepage Length	mm	1125
Weight	kg	4.5
No of Sheds		13
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
120.7	128.4	142.1	140.6	96.7	102.2

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 52.3 kV
10 Sec. TOV: 50.7 kV



Marking

Raychem

HDA-39M
 U_C : 39.0 kV
 U_R : 49.0 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

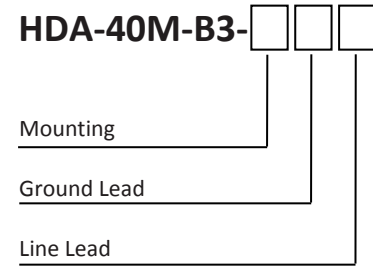
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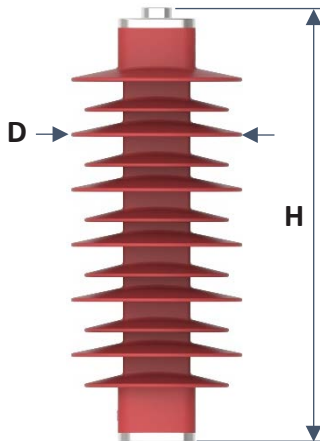
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 40.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 50.0 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

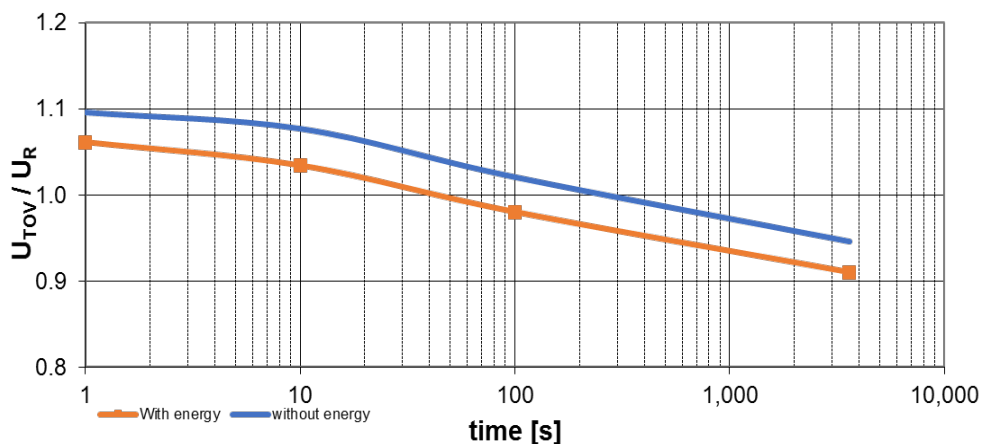
Impulse voltage 1.2/50 μ s	kV	250
Power frequency voltage	-wet: kV	122
Overall length, (H)	mm	423
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	418
Creepage Length	mm	1279
Weight	kg	5
No of Sheds		15
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
123.7	131.6	145.7	144.1	99.1	104.8

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 53.3 kV
10 Sec. TOV: 51.7 kV



Marking

Raychem

HDA-40M
 U_c : 40.0 kV
 U_R : 50.0 kV
 MO Surge Arrester
 50/60 Hz
 IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
 Manufacturing Year

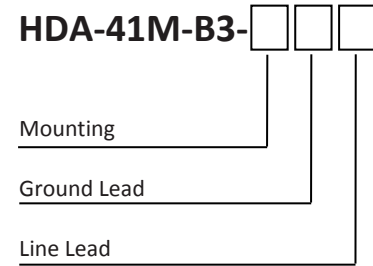
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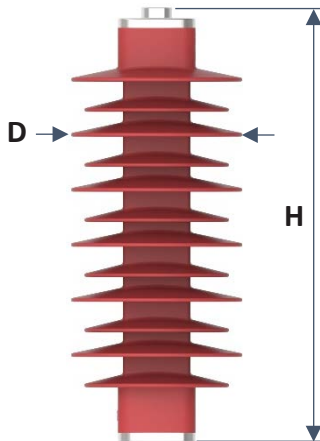
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HDA U_c Voltage Range	2.4 – 41 kV	Continuous operating voltage
HDA U_R Voltage Range	3 – 51.5 kV	U_c : 41.0 kV
Polymeric Housing		Rated voltage
IEC 60099-4: 2014 Ed 3.0		U_R : 51.5 kV
Nominal discharge current (I_n)	10 kA	
Surge arrester class	DH	
Rep. charge transfer rating Q_{RS}	0.5 C	Short circuit rating:
High current impulse (4/10 μ 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

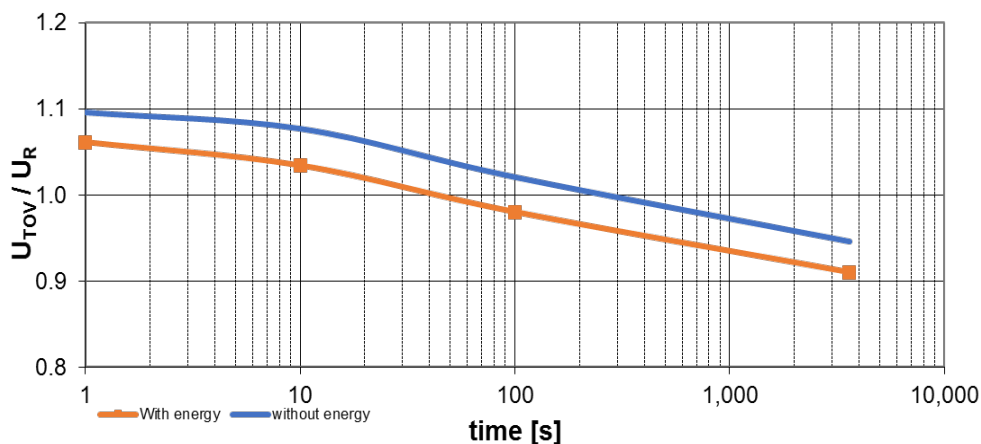
Impulse voltage 1.2/50 μ s	kV	250
Power frequency voltage	-wet: kV	122
Overall length, (H)	mm	423
Overall diameter (large shed), (D)	mm	137
Flashover distance	mm	418
Creepage Length	mm	1279
Weight	kg	5
No of Sheds		15
Cantilever strength SSL	Nm	350
Cantilever strength SLL	Nm	350
Pull strength	N	2000
Max. Torque M12	Nm	50

Residual Voltages (kV)

Lightning current impulse 8/20 μ s			Steep lightning current impulse 1/20 μ s 10 kA	Switching current impulse 30/60 μ s	
5 kA	10 kA	125 A		500 A	
127.3	135.4	149.9	148.3	102.0	107.8

Temporary Overvoltage Capability (TOV)

1 Sec. TOV: 54.9 kV
10 Sec. TOV: 53.3 kV



Marking

Raychem

HDA-41M
 U_c : 41.0 kV
 U_R : 51.5 kV
MO Surge Arrester
50/60 Hz
IEC 60099-4
 I_s 40 kA
 I_n 10 kA DH
Manufacturing Year

MVSA-800-22/18-0-000

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