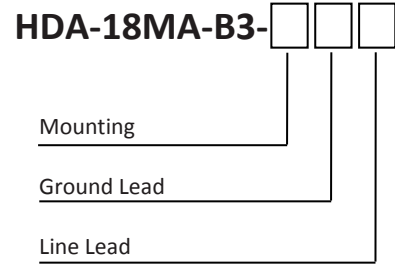
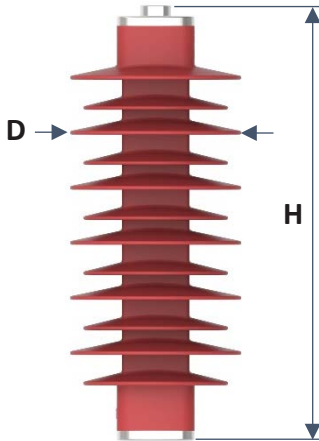


|                                      |             |   |
|--------------------------------------|-------------|---|
| HDA $U_c$ Voltage Range              | 2.4 – 41 kV | Continuous operating voltage              |
| HDA $U_R$ Voltage Range              | 3 – 51.5 kV | $U_c$ : <b>18.0</b> kV                    |
| Polymeric Housing                    |             | Rated voltage                             |
| IEC 60099-4: 2014 Ed 3.0             |             | $U_R$ : <b>22.5</b> 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 $\mu$ 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**

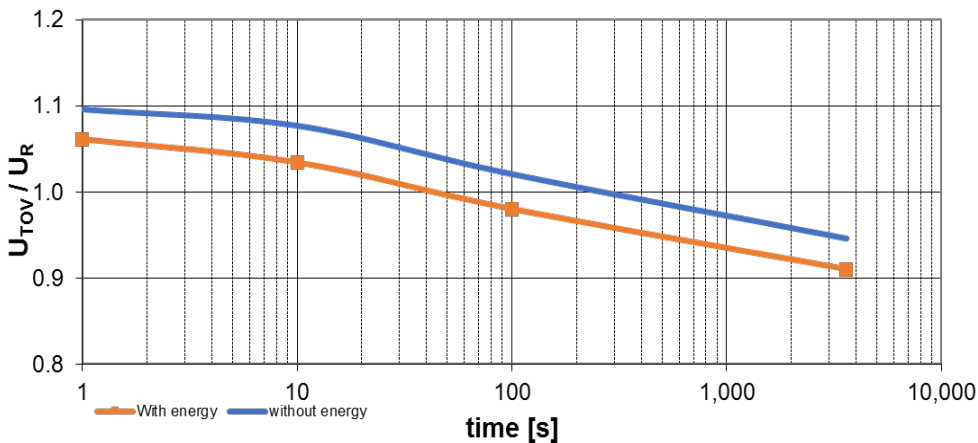
|                                    |          |      |
|------------------------------------|----------|------|
| Impulse voltage 1.2/50 $\mu$ s     | kV       | 190  |
| Power frequency voltage            | -wet: kV | 93   |
| Overall length, (H)                | mm       | 316  |
| Overall diameter (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 $\mu$ 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 |
| 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

MVSA-775-22/18-0-000

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