TE Connectivity's Bowthorpe EMP Medium Voltage (MV) Surge Arrester

DOV Series

MV surge arrester tested to IEC 60099-4: 2014 (Ed. 3.0) standard

DOV series rated voltage range: 3 - 36 kV

Product naming convention



- 1 Rated Voltage U_{R}
- ² Housing creepage code
- ³ Line lead accessory
- ⁴ Earth lead accessories

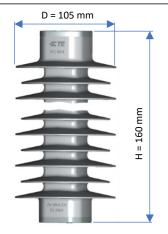
⁵ Mounting accessories

⁶ Packaging option

⁷ Modification code (optional)

Rated voltage U_R 12 kV Continuous Operating Voltage U_c 9.6 kV

For accessory ^(3,4,5) and packaging ⁽⁶⁾ options please refer to brochure EPP-3144



Main features	Arrester housing - A *	Unit		
Housing	Silicone	Impulse voltage 1.2/50 μs	kV	174
Nominal discharge current - In	10 kA (8/20 μs)	Power frequency voltage - wet	kV	46
Class – Distribution High	DH	Overall length (H) / Diameter (D)	mm	160 / 105
High current impulse	100 kA (4/10 μs)	Flashover distance	mm	162
Energy absorption capability		Creepage length	mm	405
Repetitive charge transfer rating Q _{rs}	0.4 C	Approx. body weight	kg	1.3
Thermal charge transfer rating Q _{th}	1.1 C	No of sheds		6
Short circuit rating (pre-failing method)		Cantilever strength SSL / SLL	Nm	225 / 175
Rated short-circuit Is 0.2s	20 kA	Tensile strength	N	1000
Low short-circuit current	600 A	Max. torque M12	Nm	40
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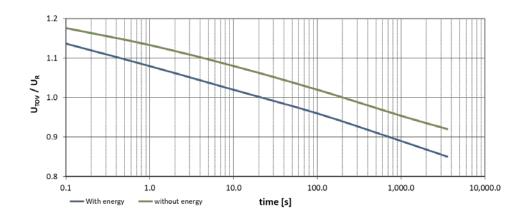
- Safe non-shattering design
- Suitable for installation in polluted environments
- Silicone directly moulded to ZnO varistors

* Other housing sizes available – Please contact TE Connectivity. 100% Routine tested: Residual voltage, reference voltage, internal partial discharge tests.

Residual voltage U _{RES} (kV _{peak}) – maxium values									
At lightning current			At steep lightning current	At switching current					
impulse (8/20 μs)			impulse (1/20 μs)	impulse (30/60 μs)					
5 kA	10 kA	20 kA	40 kA	10 kA	125 A	500 A			
33.7	36.6	41.4	47.0	40.3	26.0	27.8			

Power frequency voltage versus time curve (TOV)

1 s TOV without prior energy: 13.6 kV 10 s TOV without prior energy: 13.4 kV



Product marking

TE logo Bowthorpe EMP

DOV-12

Uc: 9.6 kV
Ur: 12 kV
IEC 60099-4
Is 20 kA
In 10 kA
DH
Manufacturing year

MVSA-867-11/2018-N-0

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