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

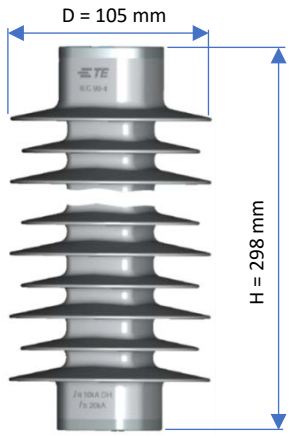
Product naming convention

DOV - 30[1] D[2] - L L[3] E E[4] M M[5] - P[6] - MOD[7]

[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 **30 kV**
Continuous Operating Voltage U_c **24 kV**

For accessory [3, 4, 5] and packaging [6] options please refer to brochure EPP-3144



Main features		Arrester housing - D *	Unit	
Housing	Silicone	Impulse voltage 1.2/50 µs	kV	230
Nominal discharge current - I_n	10 kA (8/20 µs)	Power frequency voltage - wet	kV	98
Class – Distribution High	DH	Overall length (H) / Diameter (D)	mm	298 / 105
High current impulse	100 kA (4/10 µs)	Flashover distance	mm	304
Energy absorption capability		Creepage length	mm	945
Repetitive charge transfer rating Q_{rs}	0.4 C	Approx. body weight	kg	2.3
Thermal charge transfer rating Q_{th}	1.1 C	No of sheds		15
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

- Safe non-shattering design
- Suitable for installation in polluted environments
- Silicone directly moulded to ZnO varistors

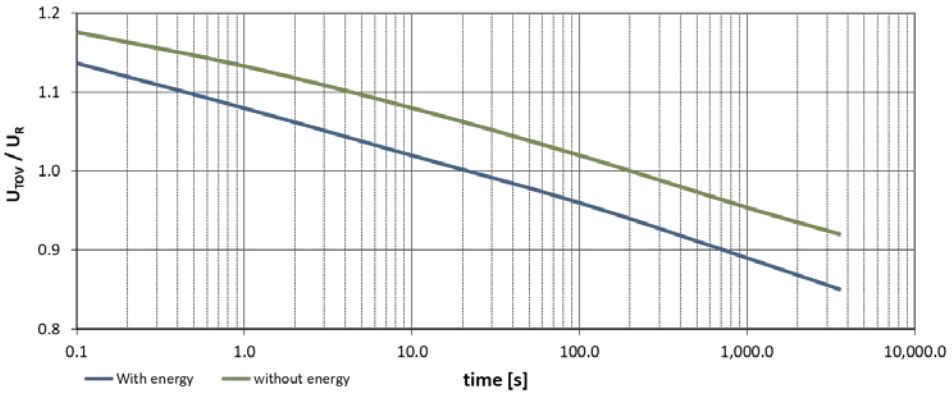
* Other housing sizes available – Please contact TE Connectivity.
100% Routine tested: Residual voltage, reference voltage, internal partial discharge tests.

Residual voltage U_{RES} (kV_{peak}) – maxium values

At lightning current impulse (8/20 µs)				At steep lightning current impulse (1/20 µs)	At switching current impulse (30/60 µs)	
5 kA	10 kA	20 kA	40 kA	10 kA	125 A	500 A
82.8	90.0	101.7	115.6	99.0	64.0	68.4

Power frequency voltage versus time curve (TOV)

1 s TOV without prior energy: 34.1 kV
10 s TOV without prior energy: 33.6 kV



Product marking

TE logo
Bowthorpe EMP

DOV-30
Uc: 24 kV
Ur: 30 kV
IEC 60099-4
Is 20 kA
In 10 kA
DH
Manufacturing year

MVSA-888-11/2018-N-0

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 catalogue 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 Technical and Sales Information please e-mail: surgearresters@te.com
or telephone: +353 61 470816 or +353 61 470848
TE Connectivity Ltd. family of companies. All Rights Reserved.

te.com/energy