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

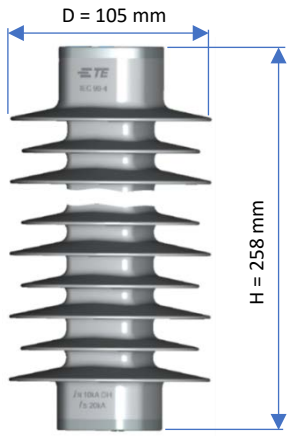
Product naming convention

DOV - 24[1] C[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 **24 kV**
Continuous Operating Voltage U_c **19.2 kV**

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



Main features		Arrester housing - C *	Unit	
Housing	Silicone	Impulse voltage 1.2/50 µs	kV	203
Nominal discharge current - I_n	10 kA (8/20 µs)	Power frequency voltage - wet	kV	87
Class – Distribution High	DH	Overall length (H) / Diameter (D)	mm	258 / 105
High current impulse	100 kA (4/10 µs)	Flashover distance	mm	266
Energy absorption capability		Creepage length	mm	817
Repetitive charge transfer rating Q_{rs}	0.4 C	Approx. body weight	kg	2
Thermal charge transfer rating Q_{th}	1.1 C	No of sheds		13
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

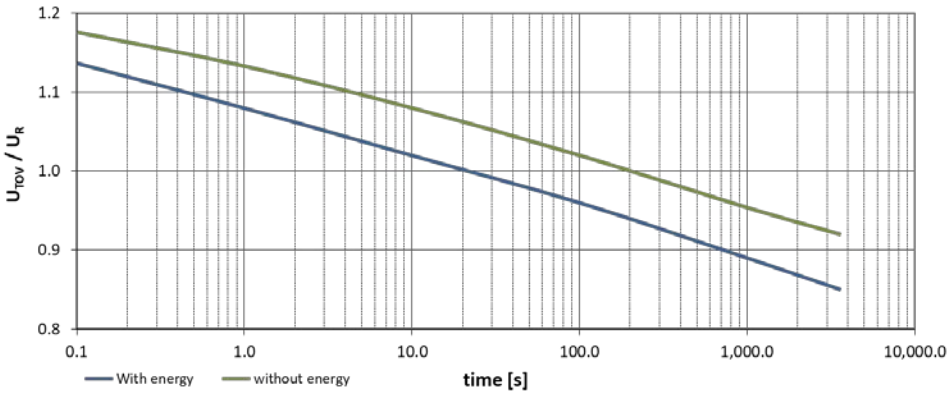
* Other housing sizes available – Please contact TE Connectivity.
100% Routine tested: Residual voltage, reference voltage, internal partial discharge tests.

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
66.2	72.0	81.4	92.4	79.2	51.2	54.7

Power frequency voltage versus time curve (TOV)

1 s TOV without prior energy: 27.3 kV
10 s TOV without prior energy: 26.9 kV



Product marking

TE logo
Bowthorpe EMP

DOV-24
Uc: 19.2 kV
Ur: 24 kV
IEC 60099-4
Is 20 kA
In 10 kA
DH
Manufacturing year

MVSA-882-11/2018-N-0

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