

# TOSHIBA

Leading Innovation >>>

## TRANSMISSION LINE ARRESTERS

With the recent advance in electronic controls, need for stabilized and highly reliable power supply has increased. Lightning strikes to power transmission lines cause very slight power interruptions and these interruptions create tremendous costs not only for transmission line companies but also for ultimate power consumers. Even though guard wire reduce probability of direct lightning strikes and measures like reduction in footing resistance lower impacts on the quality of power, they can not protect the transmission lines perfectly. Thus Transmission line arresters are required to be installed. TOSHIBA offers External Gap Type Transmission Line Arresters to be installed instead of conventional gapless arresters with disconnecting device. The External Gap Type Arrester is developed using experience of over 80 years in manufacturing and the light weight design is achieved by using direct molding technology and high gradient ZnO elements. The arrester is successfully re-closed by the external gap in event of arrester failure.

### - Features -

- Compact and Lightweight Design (Easy Installation)  
(Application of **High Gradient Element** / **Directly Molded Structure**)
- Extremely Safe Pressure Relief Performance
- Superior Characteristics against Environmental Contamination
- ZnO Elements with **Lead Free** Glass
- Manufactured at Advanced **ISO-9001** certified facilities

### - External Gap Type -

- Successful Re-closing in event of arrester failure  
(Does not require disconnecting device)



# Standard Ratings

Max. System Voltage (Um)	(kVrms)	72.5 ~ 300			
Type		TMLRG		RVLRC	
Rated Voltage (Ur)	(kVrms)	70 ~ 240			
Rated Discharge Current	(kAcrest)	10 (2/20 μ sec)	10 (8/20 μ sec)	10 (2/20 μ sec)	10 (8/20 μ sec)
Maximum Discharge Current	(kAcrest)	30 (2/20 μ sec)	65 (4/10 μ sec)	45 (2/20 μ sec)	100 (4/10 μ sec)
Rated Pressure-Relief current	(kArms)	50 (0.2sec)			
Pollution Level at Um / 3	(mg/cm <sup>2</sup> )	~ 0.35			

## - Type Test Evaluation -

TOSHIBA Transmission Line Arresters have been fully type tested and proved their excellent performances on the following items.

- Safe Pressure Relief
- High Pollution Level
- Excellent Water Resistance
- Long Term Operation Reliability

## Test Examples



Short-circuit Test

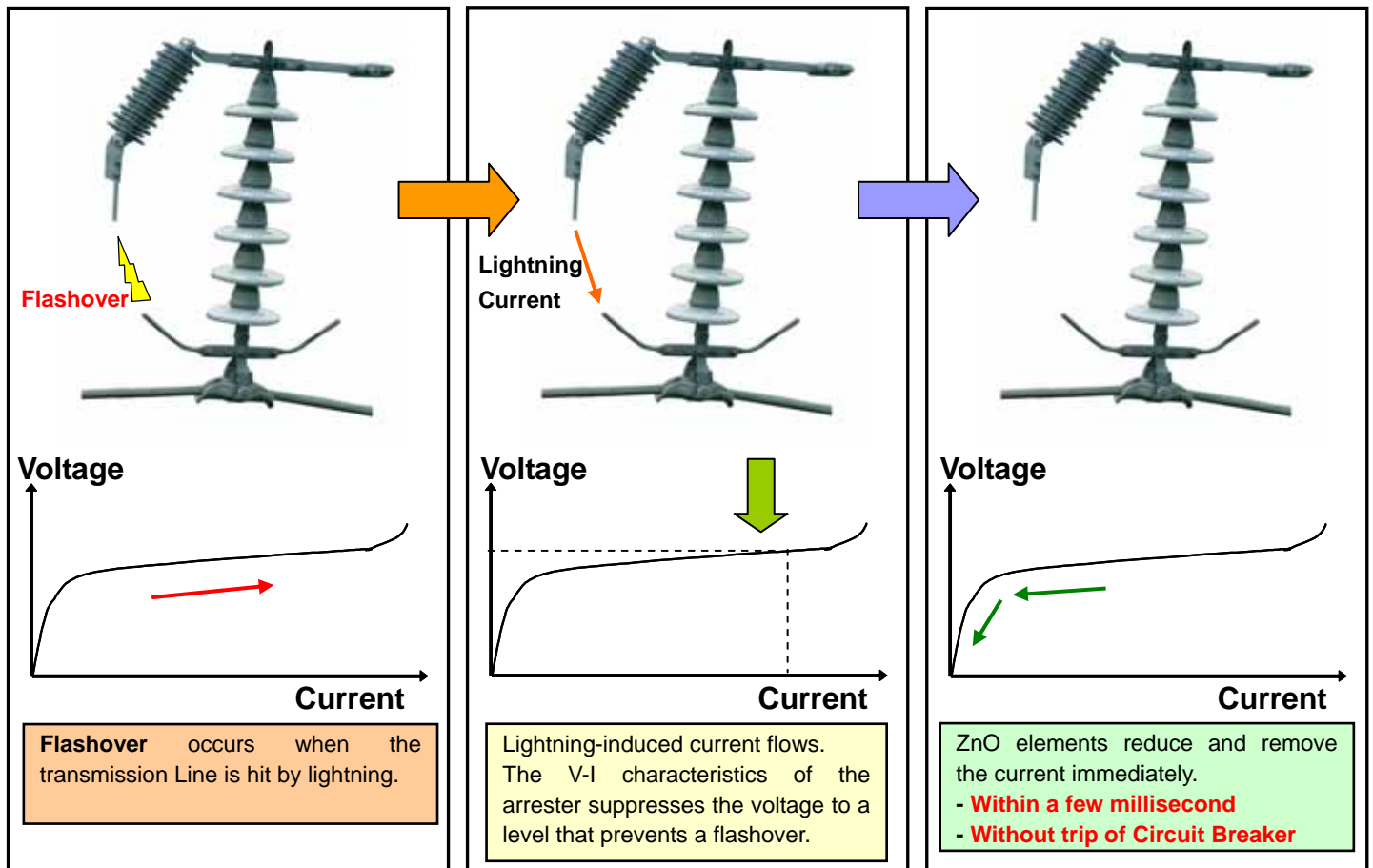


Water Immersion Test  
(Boiling in Salt Water)



Insulation Coordination Test

## - Operational Principal -



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