

# Medium-voltage surge arresters

## Ensuring reliable protection of transformers



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Overvoltage protection  
of transformers

Surge arresters provide reliable protection to transformers by limiting lightning and switching transients.

Surge arresters from ABB have are capable of withstanding high energy that prevents outage in lines or substations, thereby improving the quality and availability of the power supply.

The temporary overvoltage withstand capability of ABB's surge arresters provides an ideal solution for the protection of transformers in all types of conditions.

ABB offers a wide range of surge arresters to protect different transformer types. It is recommended to install surge arresters on primary and secondary sides as well as on the unearthed neutral of all transformers.

- Designed and tested according to IEC 60099-4
- Maximum safety (safe short-circuit behavior for high personal and equipment security)
- Additional fire safety tests
- Suitable for various ambient conditions

### Customer benefits and savings

- Standard arresters and a special design for 6-arrester arrangement
- Easy and fast to install
- Maintenance-free
- Wide range of arrester housings to fulfil customer requirements for creepage distance
- Solutions for different mechanical and energy demands
- Slows down the ageing of other equipment insulation

### ABB for your competitive edge

- More than 100 years of experience in overvoltage protection
- More than 30 years of experience in silicone insulation
- Global supplier with local support teams
- Proven track record with many customer references worldwide
- In-house metal-oxide resistors production
- All equipment manufactured internally by ABB enabling monitoring and control of the design, production and delivery process








Transformer type	POLIM-D	POLIM-K	MWK	POLIM-S	POLIM-H
					
Maximum system voltage $U_g$ , kV	52	52	52	72	72
Continuous voltage $U_c$ , kV <sub>rms</sub>	4-36	4-44	4-44	4-44	4-44
Arrester class acc. to IEC 60099-4 (Ed. 3.0)	DH	SL	SL	SM	SH
Distribution / pole mounted transformer	•	•	•		
Dry type transformer		•	•		
Booster transformer / traction transformer				•	•
Power transformer			•	•	•
Arc furnace transformer				•	•

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