















ABB surge arresters for AC and DC

Global product offering

ABB offers a complete range of metal oxide surge arresters for outdoor and indoor applications. The range comprises AC and DC solutions and arresters for special applications like railways, DC-voltage limiting devices and other medium voltage applications. These arresters are all based on the ABB's latest technology of metal-oxide resistors looped with glass fiber-composite material to ensure long term stability and compactness. The active part of the arresters is directly molded into silicone for environmental robustness and to prevent internal discharges.

The portfolio comprises medium-voltage arresters for all line discharge classes according to IEC for AC and all charge transfer classes according to EN for DC traction solutions.

Product / Offering	Benefits and features	Suggested applications
MVR K5 / K10 	MVR K5/K10 arresters are rated from 0.44 kV to 0.80 kV for AC and from 0.56 kV to 1.02 kV for DC. The energy absorption class DM or DH (line discharge class 1 at 3.4 kJ/kVUc).	This arrester is used for over-voltage protection of apparatuses, rotating machines and cable sheaths in AC and DC systems for indoor applications.
MVR G5/ G10 	MVR G5/ G10 arresters are available in 4 different housing sizes rated from 1.0 kV to 6.6 kV AC. The energy absorption is class DM or DH (line discharge class 1 at 3.4 kJ/kVUc).	This arrester is used for over-voltage protection of apparatuses, rotating machines and cable sheaths in AC systems for indoor applications.
MWD 	MWD arresters are available in 8 different housing sizes, rated from 4 kV to 44 kV AC. The energy absorption is class SL (line discharge class 2 at 5.5 kJ/kVUc).	This arrester is used for over-voltage protection of rotating machines, transformers, cables, capacitors and medium voltage equipment in AC systems for indoor applications.
MWK 	MWK arresters are of direct molded silicone design, available in 16 different housing sizes, rated from 4 kV to 44 kV AC. The energy absorption is class SL (line discharge class 2 at 5.5 kJ/kVUc).	This arrester is used for over-voltage protection of rotating machines, transformers, cables, capacitors and medium voltage equipment in AC systems for indoor and outdoor applications.
POLIM-C..LB 	POLIM-C..LB arresters are of direct molded silicone design, rated from 2.3 kV to 4.8 kV AC. The energy absorption is class SL (line discharge class 2 at 5.5 kJ/kVUc).	This arrester is used for over-voltage protection of apparatuses, rotating machines, distribution transformers and cables sheaths in AC systems for indoor applications.
POLIM-C..N 	POLIM-C..N arresters are of direct molded silicone design, available in 3 different housing sizes, rated from 0.9 kV to 7.5 kV AC. The energy absorption is class SL (line discharge class 2 at 5.5 kJ/kVUc).	This arrester is used for over-voltage protection of apparatuses, rotating machines, distribution transformers and cables sheaths in AC systems for indoor and outdoor applications.

Product / Offering	Benefits and features	Suggested applications
POLIM-C..ND/ POLIM-C..HD 	POLIM-C..ND and POLIM-C..HD arresters are of direct molded silicone design, available in 4 different housing sizes, rated from 1.0 kV to 4.7 kV DC. The charge transfer class is DC-A with 4.5 kJ/kV.	This arrester is used for over-voltage protection of apparatuses and equipment in DC systems especially DC railway systems for indoor and outdoor applications.
POLIM-D 	POLIM-D arresters are of direct molded silicone design, available in 11 different housing sizes, rated from 4 kV to 36 kV AC. The energy absorption is class DH (line discharge class 1 at 3.6 kJ/kVUc).	This arrester is used for over-voltage protection of medium voltage distribution systems, transformers, cables and equipment in AC systems for indoor and outdoor applications.
POLIM-K 	POLIM-K consists of direct molded silicone housing, Uc from 4 to 44 kV in 1 kV steps and line discharge class 2; 5.2 kJ/kV (Uc). It is available in 9 different housing sizes.	This arrester is used for over-voltage protection of medium voltage distribution systems, transformers, cables and equipment in AC systems for indoor and outdoor applications.
POLIM-I 	POLIM-I arresters are of direct molded silicone design, available in 9 different housing sizes, rated from 4 kV to 44 kV AC. The energy absorption is class SL (line discharge class 2 at 5.5 kJ/kVUc).	This arrester is used for over-voltage protection of medium voltage substations, transformers, cables and equipment in AC systems for indoor and outdoor applications.
POLIM-S 	POLIM-S arresters are of direct molded silicone design, available in 9 different housing sizes rated from 4 kV to 44 kV AC. The energy absorption is class SM (line discharge class 3 at 9.0 kJ/kVUc). For railway applications, tested for shock and vibration, as well as fire and smoke according to IEC and EN.	This arrester is used for over-voltage protection of medium voltage substations, transformers, cables and equipment as well as AC railway systems (on the wayside and on the traction vehicles) for indoor and outdoor applications. The arrester is specifically designed for railway applications.
POLIM-H..N 	POLIM-H..N arresters are of direct molded silicone design, available in 9 different housing sizes, rated from 4 kV to 44 kV AC. The energy absorption is class SH (line discharge class 4 at 12.0 kJ/kVUc). For railway applications, tested for shock and vibration, as well as fire and smoke according to IEC and EN.	This arrester is used for over-voltage protection of medium voltage substations and transformers as well as AC railway systems (on the wayside and on the traction vehicles) for indoor and outdoor applications. The arrester is specifically designed for railway applications.
POLIM-H..ND 	POLIM-H..ND arresters are of direct molded silicone design, rated from 1.0 kV to 4.7 kV DC. The charge transfer class is DC-B with 10.5 kJ/kV. Tested for shock and vibration as well as fire and smoke according to IEC and EN.	This arrester is used for over-voltage protection of DC systems and DC railway systems (on the wayside and on the traction vehicles) for indoor and outdoor applications.
POLIM-X..ND 	POLIM-X..ND arresters are of direct molded silicone design, rated from 1.0 kV to 4.7 kV DC. The charge transfer class is DC-C with 28.5 kJ/kV. Tested for shock and vibration as well as fire and smoke according to IEC and EN.	This arrester is used for over-voltage protection of DC systems and DC railway systems (on the wayside and on the traction vehicles) for indoor and outdoor applications.

Please note: This is ABB's global offering and some products may not be available in your country. For more information and local contacts, please visit: www.new.abb.com/high-voltage/surge-arresters

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