MEIDEN

HA70-3016

Zinc Oxide Blocks

for Surge Arresters

A pioneer:
Meidensha Corporation started development of zinc oxide (metal oxide) surge arresters in 1970 and made the first delivery in 1975 for the first time in the world. Since then, over 20 million pieces of zinc oxide blocks have been delivered to about 30 countries.

High reliability, broad lineup:
Backed up with experiences, we offer the product in a variety of dimensions and performance – for distribution, substation and special use.

Features

- Applicable for IEC / IEEE (ANSI) Standards
- Excellent non-linear characteristics
- Long life
- High discharge current capability
- Compact in size
- Variety of lineup: for distribution and station class arresters
- Special use is available
  - For direct current (DC)
  - Under oil / for protection of transformer windings
  - Under gas (SF_6, etc) / for GIS
- Various applications upon request

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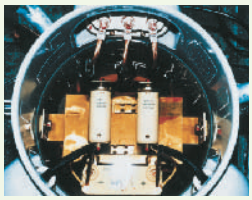
◆ Major ratings

Application for IEC Standard	Recommended UR (kVrms)	Model	Dimensions (mm)		Range of critical operating voltage (V1mA–DC) (kV–DC)	Max. residual voltage ratio (VxkA/V1mA) (at 8/20μs)	Current withstand capability	
			Diameter	Height			4/10μs (kA)	2ms (A)
5kA Distribution	3.0	ZE32GE20A	31.5±1.0	19.5±1.0	4.55 – 5.40	1.78 (at 5kA)	65	100
	4.5	ZE32GE30A		29.5±1.0	6.80 – 8.10			
	6.0	ZE32GE40A		39.5±1.0	9.10 – 10.80			
10kA Distribution & Class 1	3.0	ZE42GE20A	42.0±1.0	19.5±1.0	4.55 – 5.40	1.83 (at 10kA)	100	250
	4.5	ZE42GE30A		29.5±1.0	6.80 – 8.10			
	6.0	ZE42GE40A		39.5±1.0	9.10 – 10.80			
10kA Class 2	1.5	ZE48G11	48.5±1.0	11.5±1.0	2.10 – 2.40	1.79 (at 10kA)	100	500
	3.0	ZE48G22		22.0±1.0	4.18 – 4.82			
	5.0	ZE48G37		37.0±1.0	6.92 – 8.08			
10kA Class 3	1.5	ZE64G11	64.5±1.0	11.5±1.0	2.10 – 2.40	1.69 (at 10kA)	100	1000
	3.0	ZE64G23		22.5±1.0	4.18 – 4.82			
	6.0	ZE64G45		44.5±1.0	8.42 – 9.58			
20kA Class 4	3.0	ZE74G23	74.5±1.0	22.5±1.0	4.18 – 4.82	1.78 (at 20kA)	100	1300

◆ Application



Arrester use under oil–immersed transformer

GIS arrester

Railway arrester (DC substation use, mount on rolling stock)

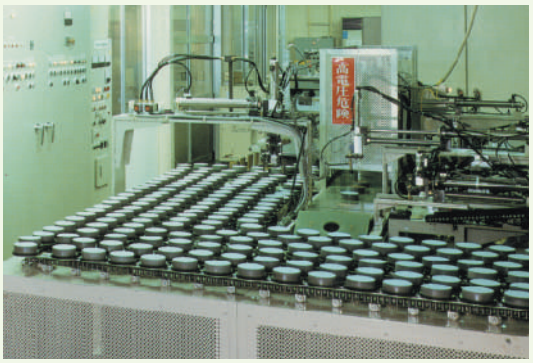
Polymeric arresters

Cable sheath protection arrester

◆ Certificate

・ISO 9001: 2000 / JIS Q 9001: 2000
Registered Scope:
Design, Development, Production and Servicing of Metal Oxide Surge Arresters (SORESTER) and Non–Linear Metal Oxide Resisters
(Exclusion: 7.5.2 Validation of processes for production and service provision)

Arrester Factory (Meidensha Numazu Works)



Testing machine of ZnO blocks

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