

Major Ratings of Zinc Oxide (ZnO) Blocks (1/3)

ZnO blocks for Distribution class surge arresters

Model	Dimensions		Range of critical operating voltage [V1mAdc] (kVdc)	Max.residual voltage ratio at 8/20 μ s [VxkA/V1mAdc]					Current withstand capability	
	Diameter	Height		2.5kA	5kA	10kA	20kA	40kA	4/10 μ s	2ms
	(mm)	(mm)		(p.u)	(p.u)	(p.u)	(p.u)	(p.u)	(kA)	(A)
ZE32GE20A	31.5 \pm 1.0	19.5 \pm 1.0	4.55~5.40	1.65	1.78	1.96	2.19	-	65	100
ZE32GE30A		29.5 \pm 1.0	6.80~8.10							
ZE32GE40A		39.5 \pm 1.0	9.10~10.80							
ZE36GE20	36.0 \pm 1.0	19.5 \pm 1.0	4.50~5.50	1.60	1.72	1.89	2.12	-	65	150
ZE36GE30		29.5 \pm 1.0	6.75~8.25							
ZE36GE40		39.5 \pm 1.0	9.00~11.00							
ZE42GE20A	42.0 \pm 1.0	19.5 \pm 1.0	4.55~5.40	1.58	1.68	1.83	2.02	2.29	100	250
ZE42GE30A		29.5 \pm 1.0	6.80~8.10							
ZE42GE40A		39.5 \pm 1.0	9.10~10.80							

ZnO blocks for Station class surge arresters

Model	Dimensions		Range of critical operating voltage [V1mAdc] (kVdc)	Max.residual voltage ratio at 8/20 μ s [VxkA/V1mAdc]					Current withstand capability	
	Diameter	Height		2.5kA	5kA	10kA	20kA	40kA	4/10 μ s	2ms
	(mm)	(mm)		(p.u)	(p.u)	(p.u)	(p.u)	(p.u)	(kA)	(A)
ZE42GE20B	42.0 \pm 1.0	19.5 \pm 1.0	4.15~4.75	1.52	1.62	1.76	1.95	2.20	100	500
ZE42GE27B		26.5 \pm 1.0	6.20~7.10							
ZE42GE36B		35.5 \pm 1.0	8.30~9.50							
ZE48G11	48.5 \pm 1.0	11.0 \pm 1.0	2.10~2.40	1.56	1.66	1.79	1.97	2.19	100	500
ZE48G22		22.0 \pm 1.0	4.18~4.82							
ZE48G37		37.0 \pm 1.0	6.92~8.08							

Major Ratings of Zinc Oxide (ZnO) Blocks (2/3)

ZnO blocks for Station class surge arresters

Model	Dimensions		Range of critical operating voltage [V1mAdc] (kVdc)	Max.residual voltage ratio at 8/20 μ s [VxkA/V1mAdc]					Current withstand capability	
	Diameter	Height		2.5kA	5kA	10kA	20kA	40kA	4/10 μ s	2ms
	(mm)	(mm)		(p.u)	(p.u)	(p.u)	(p.u)	(p.u)	(kA)	(A)
MZE48A22	48.5 \pm 1.0	22.0 \pm 1.0	4.18~4.82	1.56	1.66	1.79	1.97	2.19	100	500
MZE48A44		44.0 \pm 1.0	8.42~9.58							
MZE56A23	56.0 \pm 1.0	22.5 \pm 1.0	4.18~4.82	1.54	1.62	1.74	1.89	2.08	100	800
MZE56A45		44.5 \pm 1.0	8.42~9.58							
MZE64A23	64.5 \pm 1.0	22.5 \pm 1.0	4.18~4.82	1.51	1.59	1.69	1.83	2.00	100	1000
MZE64A45		44.5 \pm 1.0	8.42~9.58							
MZE74A23	74.0 \pm 1.0	22.5 \pm 1.0	4.18~4.82	1.50	1.57	1.66	1.78	1.94	100	1300
MZE100A23	100.0 \pm 2.0	22.5 \pm 1.0	4.18~4.82	1.48	1.54	1.62	1.72	1.86	100	2000

ZnO blocks for DC surge arresters

Model	Dimensions		Range of critical operating voltage [V1mAdc] (kVdc)	Max.residual voltage ratio at 8/20 μ s [VxkA/V1mAdc]					Current withstand capability	
	Diameter	Height		2.5kA	5kA	10kA	20kA	40kA	4/10 μ s	2ms
	(mm)	(mm)		(p.u)	(p.u)	(p.u)	(p.u)	(p.u)	(kA)	(A)
MZE74A11D	74.0 \pm 1.0	11.5 \pm 0.5	2.15~2.45	1.50	1.57	1.66	1.78	1.94	100	1300
MZE74A15D		14.5 \pm 1.0	2.65~2.98							
MZE74A23D		22.5 \pm 1.0	4.28~4.72							
MZE100A23D	100.0 \pm 2.0	22.5 \pm 1.0	4.28~4.72	1.48	1.54	1.62	1.72	1.86	100	2000

Major Ratings of Zinc Oxide (ZnO) Blocks (3/3)

ZnO blocks for GIS type surge arresters

Model	Dimensions		Range of critical operating voltage [V1mAdc] (kVdc)	Max.residual voltage ratio at 8/20 μ s [VxkA/V1mAdc]					Current withstand capability	
	Diameter	Height		2.5kA	5kA	10kA	20kA	40kA	4/10 μ s	2ms
	(mm)	(mm)		(p.u)	(p.u)	(p.u)	(p.u)	(p.u)	(kA)	(A)
MZE64AF23	64.5 \pm 1.0	22.5 \pm 1.0	8.10~8.90	1.51	1.59	1.69	1.83	2.00	100	800
MZE74AF23	74.0 \pm 1.0	22.5 \pm 1.0	8.10~8.90	1.50	1.57	1.66	1.78	1.94	100	1000
MZE100AF23	100.0 \pm 2.0	22.5 \pm 1.0	7.60~8.40	1.48	1.54	1.62	1.73	1.87	100	1400

Oil-immersed type ZnO blocks (to be used in Transformer insulation oil)

Model	Dimensions		Range of critical operating voltage [V1mAdc] (kVdc)	Max.residual voltage ratio at 8/20 μ s [VxkA/V1mAdc]					Current withstand capability	
	Diameter	Height		2.5kA	5kA	10kA	20kA	40kA	4/10 μ s	2ms
	(mm)	(mm)		(p.u)	(p.u)	(p.u)	(p.u)	(p.u)	(kA)	(A)
ZE32G30	31.5 \pm 1.0	29.0 \pm 1.0	5.60~6.60	1.65	1.78	1.96	2.19	-	50	150
ZE32GB33	32.0 \pm 1.0	32.7 \pm 0.7	8.02~9.18	1.63	1.76	1.94	2.19	-	65	100
ZE64G23 MZE64A23	64.5 \pm 1.0	22.5 \pm 1.0	4.28~4.42	1.51	1.59	1.69	1.83	2.00	100	1000