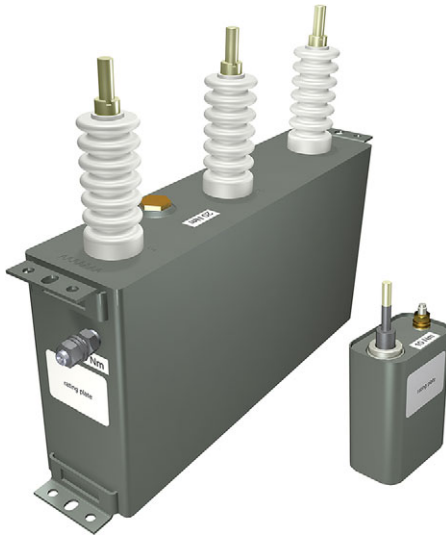


Zinc Oxide RC-Surge Suppressor (Zoa) Capacitors, for HV-Motor and Transformers



FEATURES

- Zoa's are RC surge suppressors with included varistors
- Zoa's will protect transformers and motors from insulation failures
- Zoa's will significantly reduce the expenses for maintenance and insulation failures of motors and transformers
- Zoa's will eliminate striking (re- and pre-) transients of connected vacuum and other switchgears
- Zoa's prevent high frequency currents at zero crossing in the contact gap of the switch

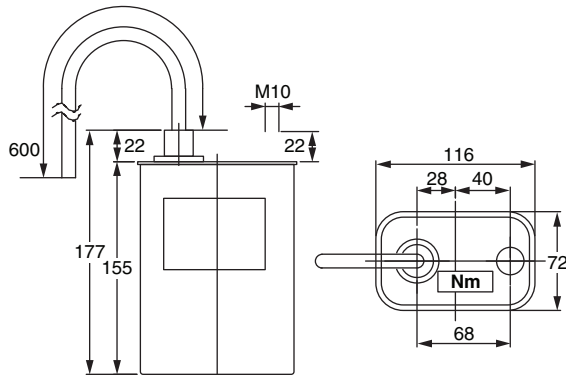
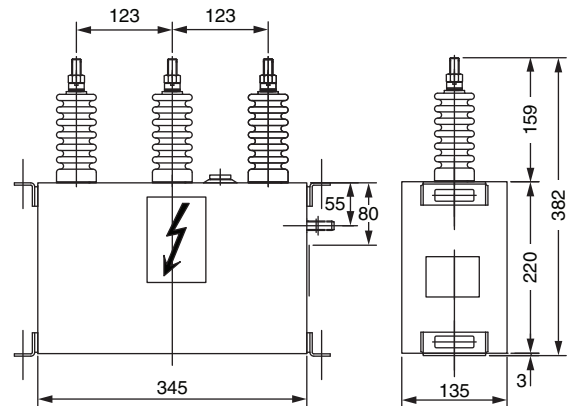
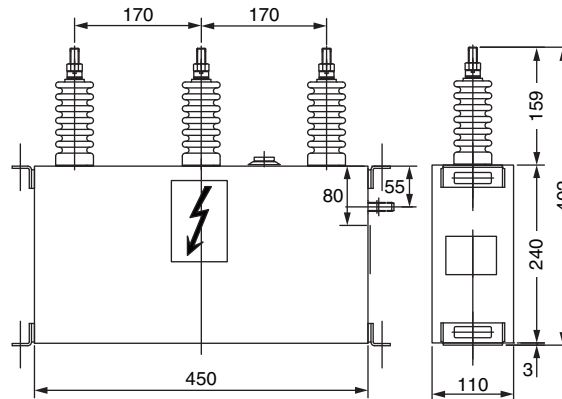
APPLICATIONS

- Zoa's are optimized to be mounted inside the motor or transformer terminal boxes to be connected to each phase and earth
- Zoa's will protect vacuum and other switchgears
- Surge suppression

QUICK REFERENCE DATA	
Series	Zoa
Description	Zinc oxide RC-surge suppressor (Zoa) for HV-motor and transformers
Type	Surge suppressor with integrated varistor
Technology	All-film polypropylene / aluminum foil, MKP
Voltage min. (V)	1000
Voltage max. (V)	11 000
Frequency min. (Hz)	50
Frequency max. (Hz)	60
Capacitance min. (μF)	0.1
Capacitance max. (μF)	0.6

TECHNICAL DATA	
Rated frequency	50 Hz or 60 Hz (other frequencies on request)
Insulation class	3.3 kV to 11 kV
Internal connection	Live case, star, or delta
Temperature category	-25 °C to +50 °C
Capacitance tolerance	-5 % / +10 %
Dielectric	All-film polypropylene / aluminum foil
Impregnating agent	Synthetic oil (non-PCB)
Standards	IEEE and CIGRE for motor impulse withstand levels
Bushings	Porcelain, welded type, M10 / M12
Casing	Stainless steel
Standard color	RAL 7033 / other colors available upon request
Erection	Indoor

FORMS OF CONSTRUCTION


Form 1

Form 2

Form 3

CORROSION PROTECTION

Case material: stainless steel case AISI 409 (AISI 304 as option)

Thickness of material 1.5 mm, top cover and bottom 2.0 mm

DIMENSION AND WEIGHT

ZOA RC-SURGE SUPPRESSOR CAPACITORS 50 Hz / 60 Hz, IP00, INDOOR					
RATED VOLTAGE U_N (kV)	C_N (μ F)	PH	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)	FORM
3.3	0.1	1	116 x 72 x 155	2	1
6.6	0.1	1	116 x 72 x 155	2	1
3.3	3 x 0.2	3	345 x 135 x 220	17	2
6.6	3 x 0.2	3	345 x 135 x 220	19	2
11	3 x 0.2	3	450 x 110 x 240	20	3



TYPE NOMENCLATURE								
Z	o	a		s	o	3.3	/	0.1
└───┘	└───┘	└───┘	└───┘	└───┘	└───┘	└───┘	└───┘	└───┘
1	2	3	4	5	6	7		
1	2	3	4	5	6	7		
Zinc oxide	a = all film dielectric	f: outdoor n. E.: indoor	s: live casing n. E.: dead casing	o: non PCB impregnating agent	Rated voltage (kV)	Rated output (kvar) Rated capacitance (μF)		

Note

- n. E. = no entry



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