

## High Voltage AC Power Capacitors 3-Phase Units



### FEATURES

- Latest technology
- High quality materials
- Low losses design
- Dielectric liquid biodegradable

### APPLICATIONS

- Power factor correction
- Harmonic filtering
- Motor compensation
- Industrial converter
- Thermal power station
- Solar
- Wind

### QUICK REFERENCE DATA

Series	Pha... HVAC 3-phase
Description	High voltage power capacitors, indoor
Type	High voltage AC power capacitors, 3-phase units
Technology	All-film polypropylene / aluminum foil
Voltage min. (V)	1000
Voltage max. (V)	17 500
Frequency min. (Hz)	50
Frequency max. (Hz)	60
Output min. (kvar)	25
Output max. (kvar)	900

### TECHNICAL DATA

Rated frequency	50 Hz or 60 Hz (other frequencies on request)
Insulation class	7.2 kV / 12 kV / 17.5 kV
Internal connection	Star or delta
Average losses	< 0.15 W/kvar
Discharge resistors	Internal (75 V/10 min)
Temperature category	-50 °C to +55 °C
Capacitance tolerance	-5 % / +10 %
Internal connection	Star or delta
Impregnating agent	Synthetic oil (non-PCB)
Protection	Pressure monitoring device
Inrush current	100 x I <sub>N</sub> max.
Standards	IEC 60871, ANSI/IEEE 18, CSA C22.2 No. 190
Bushings	Porcelain, screw or welded type, M12 / M16
Casing	Stainless steel
Standard color	RAL 7033 / other colors available upon request

## FORMS OF CONSTRUCTION

IP00 3-phase capacitor are provided with three bushings, dead casing with grounding connection point. They are connected either in star or in delta, with pressure monitoring device.



Form 1

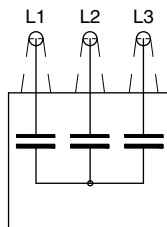


Form 2

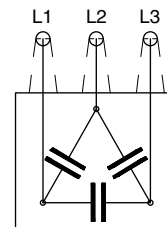


Form 3

## CONNECTIONS



Star



Delta

## 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

Standard case dimensions: 345 mm x 110 mm / 135 mm / 175 mm x H mm

Special dimensions on request (replacement market)



DIMENSION AND WEIGHT

3-PHASE CAPACITORS UP TO 7.2 kV, IP00								
RATED VOLTAGE U <sub>N</sub> (kV)	OUTPUT Q <sub>n</sub> AT 50 Hz (kvar)	OUTPUT Q <sub>n</sub> AT 60 Hz (kvar)	IMPULSE (kVp)	CURRENT AT 50 Hz (A)	CURRENT AT 60 Hz (A)	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)	FORM
7.2	25	30	60	2	2	345 x 110 x 300	22	1
7.2	50	60	60	4	5	345 x 110 x 300	22	1
7.2	75	90	60	6	7	345 x 110 x 300	22	1
7.2	100	120	60	8	10	345 x 110 x 330	24	1
7.2	150	180	60	12	14	345 x 135 x 370	30	1
7.2	200	240	60	16	19	345 x 135 x 470	36	1
7.2	300	360	60	24	29	345 x 135 x 630	47	1
7.2	400	480	60	32	39	345 x 175 x 635	58	1
7.2	550	660	60	44	53	345 x 175 x 825	73	1
7.2	700	840	60	56	67	345 x 175 x 1010	88	1
7.2	800	960	60	64	77	345 x 175 x 1155	100	1

3-PHASE CAPACITORS UP TO 12 kV, IP00								
RATED VOLTAGE U <sub>N</sub> (kV)	OUTPUT Q <sub>n</sub> AT 50 Hz (kvar)	OUTPUT Q <sub>n</sub> AT 60 Hz (kvar)	IMPULSE (kVp)	CURRENT AT 50 Hz (A)	CURRENT AT 60 Hz (A)	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)	FORM
12	50	60	75	2	3	450 x 110 x 335	30	2
12	75	90	75	4	4	450 x 110 x 340	30	2
12	100	120	75	5	6	450 x 110 x 350	31	2
12	150	180	75	7	9	450 x 110 x 445	37	2
12	200	240	75	10	12	450 x 135 x 470	45	2
12	300	360	75	14	17	450 x 135 x 650	59	2
12	400	480	75	19	23	450 x 175 x 650	73	2
12	550	660	75	26	32	450 x 175 x 815	90	2
12	700	840	75	34	40	450 x 175 x 1015	110	2
12	800	960	75	38	46	450 x 175 x 1130	122	2

3-PHASE CAPACITORS UP TO 17.5 kV, IP00								
RATED VOLTAGE U <sub>N</sub> (kV)	OUTPUT Q <sub>n</sub> AT 50 Hz (kvar)	OUTPUT Q <sub>n</sub> AT 60 Hz (kvar)	IMPULSE (kVp)	CURRENT AT 50 Hz (A)	CURRENT AT 60 Hz (A)	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)	FORM
17.5	50	60	95	2	2	450 x 110 x 460	41	3
17.5	75	90	95	2	3	450 x 110 x 475	43	3
17.5	100	120	95	3	4	450 x 110 x 495	44	3
17.5	150	180	95	5	6	450 x 110 x 495	44	3
17.5	200	240	95	7	8	450 x 110 x 560	48	3
17.5	300	360	95	10	12	450 x 135 x 675	65	3
17.5	400	480	95	13	16	450 x 135 x 825	77	3
17.5	550	660	95	18	22	450 x 175 x 825	95	3
17.5	700	840	95	23	28	450 x 175 x 995	113	3



TYPE NOMENCLATURE											
P	h	a	f	s	o	6.3	/	200	/	1	D
1	2	3	4	5	6	7	8	9			
Ph: power capacitor	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)	1 = 1-phase capacitor n. E. = 3-phase capacitor	D = over pressure device			

**Note**

- n. E. = no entry



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