

## Line Frequency Capacitors 50 Hz / 60 Hz All-Film Technology



### FEATURES

- Dielectric liquid biodegradable
- High quality materials
- Over pressure switch
- Massive connection studs (M12 or M20)

### APPLICATIONS

- Induction furnaces and heaters
- Improve power factor
- Tune special furnace circuits

### STANDARDS

- IEC CEI 60110-1

### Note

- Capacitor in accordance with other standards available upon request

### LINKS TO ADDITIONAL RESOURCES

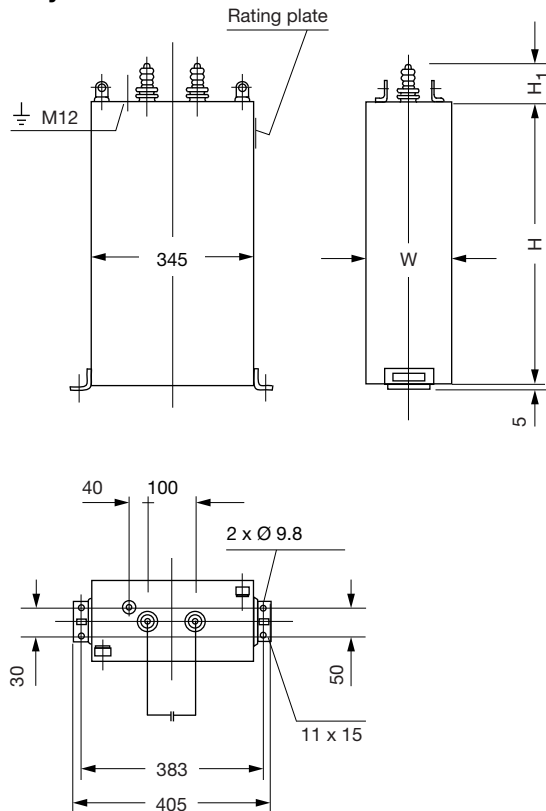


QUICK REFERENCE DATA	
Series	Phao... line frequency
Description	Line frequency capacitors, indoor
Type	Capacitors, induction heating
Technology	All-film polypropylene / aluminum foil
Voltage min. (V)	850
Voltage max. (V)	3000
Frequency min. (Hz)	50
Frequency max. (Hz)	60
Output min. (kvar)	25
Output max. (kvar)	800

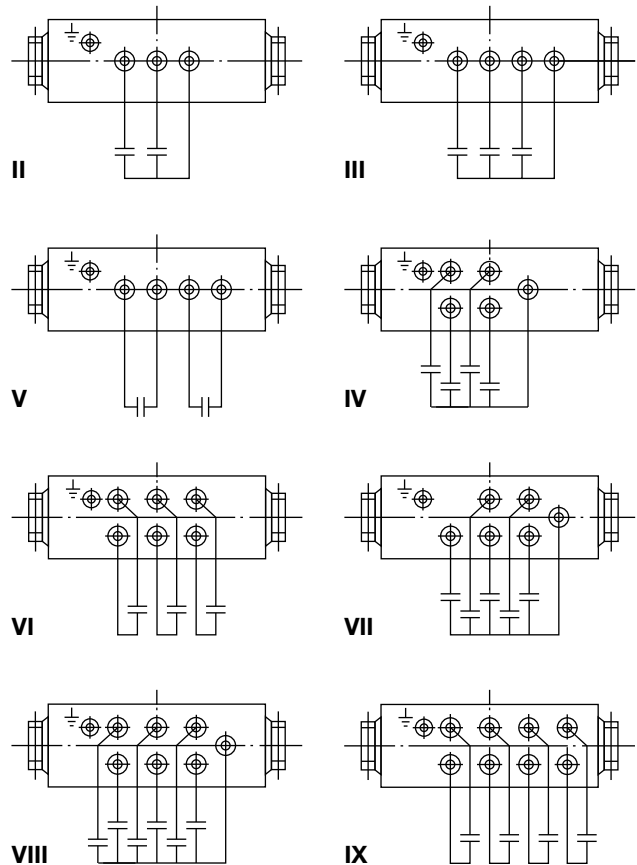
TECHNICAL DATA	
Internal connection	Single phase (dead case) Circuitry I to IX
Discharge resistor	Available
Temperature category	-25 °C to +45 °C
Capacitance tolerance	-5 % / +5 %
Dielectric	All-film polypropylene / aluminum foil
Impregnating agent	Synthetic oil (non-PCB)
Protection	Internal fuses available / pressure monitoring device
Standards	IEC CEI 60110-1
Cooling system	Self-cooling, water-cooled capacitors can be supplied upon request
Bushings	Porcelain, screw type, M12 / M20
Casing	Stainless steel / brass sheet welded
Mounting	Upright or horizontally position
Standard color	RAL 7033 / other colors available upon request

## FORMS OF CONSTRUCTION

### Circuitry I:



### Additional Circuitry Versions:



Standard case dimensions: 345 mm x 135 mm / 175 mm x H mm (other dimensions upon request)

DIMENSIONS AND WEIGHT						
RATED VOLTAGE $U_N$ (V)	OUTPUT $Q_n$ AT 50 Hz (kvar)	CURRENT AT 50 Hz (A)	BUSHING	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)	CIRCUITRY
850	370	435	M20	345 x 135 x 1000	72	I
900	360	400	M20	345 x 135 x 985	71	I
1000	380	380	M20	345 x 135 x 985	71	I
1200	480	400	M20	345 x 135 x 990	71	I
1500	520	347	M12	345 x 135 x 1000	72	I
2000	530	265	M12	345 x 135 x 990	71	I
2400	730	304	M12	345 x 175 x 995	90	I
3000	690	230	M12	345 x 175 x 1000	91	I

### Notes

- 60 Hz on request
- Shown are the maximum power ratings.  
Other ratings, voltages, and subdivisions are available on request



TYPE NOMENCLATURE																
P	h	a	w	o	850	/	500	/	1	S	-	DR	-	60 Hz	-	EW
1	2	3	4	5	6	7	8	9	10	11						
1	2	3	4	5	6	7	8	9	10	11						
Ph: power capacitor	a: all-film dielectric	w: water cooled n. E.: air cooled	o: non PCB impregnating agent	Voltage (V or kV)	Total output (kvar)	1-phase	S: partial outputs n. E.: one output	ST: thermostat KL: PTC resistor n. E.: without monitoring	60 Hz: frequency n. E.: 50 Hz	EW: discharge resistor n. E.: without discharge resistor						

**Note**

- n. E. = no entry



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