Medium Frequency Capacitors, Water Cooled
All-Film Technology up to 10 000 Hz



FEATURES

- Dielectric liquid biodegradable
- High quality materials
- 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

3D Models

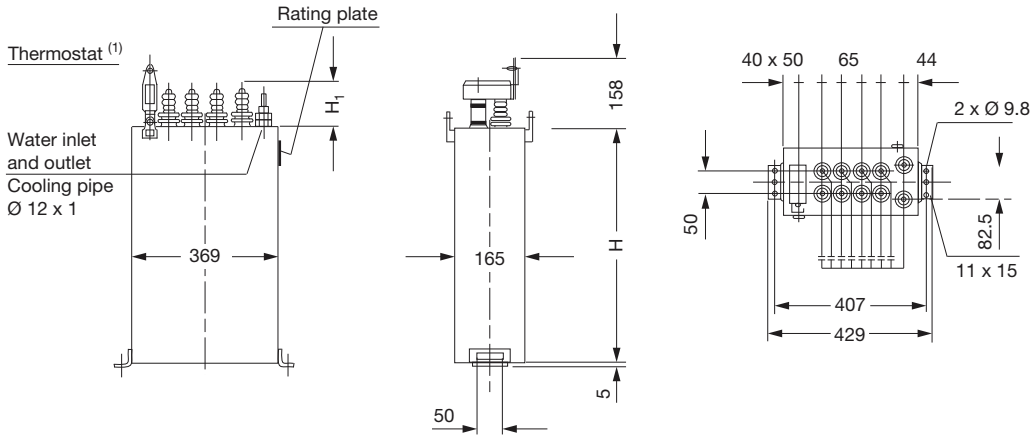
QUICK REFERENCE DATA	
Series	Phawo…kS.. medium frequency capacitors
Description	Medium frequency capacitors, water cooled, indoor
Type	Capacitors, induction heating
Technology	All-film polypropylene / aluminum foil
Voltage min. (V)	200
Voltage max. (V)	3000
Frequency min. (Hz)	75
Frequency max. (Hz)	10 000
Output min. (kvar)	150
Output max. (kvar)	5000

TECHNICAL DATA	
Internal connection	Dead or live case
Temperature category	+1 °C to +50 °C
Capacitance tolerance	-10 % / +10 %
Dielectric	All-film polypropylene / aluminum foil
Impregnating agent	Synthetic oil (non-PCB)
Protection	Pressure monitoring device / thermostat
Standards	IEC CEI 60110-1
Cooling system	Water cooling, outflowing water temperature 40 °C maximum
Bushings	Porcelain, screw type, M12 / M20
Casing	Brass sheet welded
Mounting	Upright or horizontally position
Standard color	RAL 7033 / other colors available upon request
Erection	Indoor

For technical questions, contact: esta@vishay.com

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FORMS OF CONSTRUCTION



Standard case dimensions: 369 mm x 165 mm x H mm (other dimensions upon request)

Note

(1) Upon request

DIMENSIONS AND WEIGHT

FREQUENCY f (Hz)	RATED VOLTAGE U_N (V)	OUTPUT Q_n (kvar)	CURRENT (A)	BUSHING	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)
150	600	760	1267	M12 / M20	369 x 165 x 1000	90
150	3000	2000	667	M12 / M20	369 x 165 x 1000	90
300	600	1020	1700	M12 / M20	369 x 165 x 800	80
300	3000	4000	1333	M12 / M20	369 x 165 x 1000	90
600	250	420	1680	M12 / M20	369 x 165 x 850	85
600	3000	6000	2000	M12 / M20	369 x 165 x 1000	90
1000	250	660	2640	M12 / M20	369 x 165 x 1000	90
1000	2450	4900	2000	M12 / M20	369 x 165 x 1000	90
3000	250	660	2640	M12 / M20	369 x 165 x 400	38
3000	1500	3960	2640	M12 / M20	369 x 165 x 350	34
5000	250	640	2560	M12 / M20	369 x 165 x 300	29
5000	1500	3840	2560	M12 / M20	369 x 165 x 350	34
8000	250	600	2400	M12 / M20	369 x 165 x 250	26
8000	1500	3500	2333	M12 / M20	369 x 165 x 300	29
10 000	250	570	2280	M12 / M20	369 x 165 x 300	29
10 000	1500	3400	2267	M12 / M20	369 x 165 x 300	29

Note

- Shown are the maximum power ratings.
  Other ratings, voltages, and subdivision are available on request

TYPE NOMENCLATURE

P	h	a	w	o	s	750	/	1800	/	1k	S	-	DR
1		2	3	4	5	6		7		8	9		10

1	2	3	4	5	6	7	8	9	10
Ph: power capacitor	a: all film dielectric	w: water cooled	o: non PCB impregnating agent	s: live casing n. E.: dead casing	Voltage (V or kV)	Total output (kvar)	Frequency (kHz)	S: partial outputs n. E. = one output	DR: pressure switch ST: thermostat KL: PTC resistor

Note

- n. E. = no entry

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