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Vishay ESTA

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

QUICK REFERENCE DATA					
Series	PhawokS medium frequency capacitors				
Description	Medium frequency capacitors, water cooled, indoor				
Туре	Capacitors, induction heating				
Technology	All-film polypropylene / aluminum foil				
Voltage min. (V)	200				
Voltage max. (V)	3000				
Frequency min. (Hz)	75				
Frequency max. (Hz)	6000				
Output min. (kvar)	150				
Output max. (kvar)	5000				

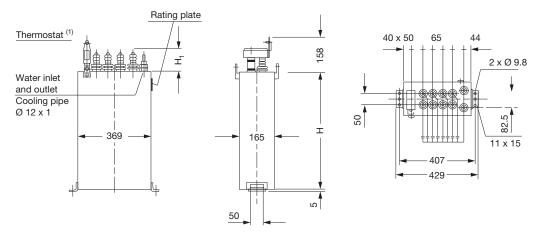
TECHNICAL DATA					
Internal connection	Dead or live case				
Temperature category	+1 °C to +50 °C				
Capacitance tolerance	-10 % / +10 %				
Dielectric	All-film polypropylene / aluminum foil				
Impregnating agent	Synthetic oil (non-PCB)				
Protection	Pressure monitoring device / thermostat				
Standards	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				

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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									
P1	h	a v 2		s 750) /	1800	/ 11		- DR
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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