

Vishay ESTA Power Film Capacitors



Low Losses at High Frequencies

GLI



Compact Design for Maximum Output, 56 kvar

PhMKD



Insulation Level Up to 36 kV (70 kV / 170 kV_p)

Phao, Phafo

Frequency Range Up to 100 kHz

Phawo



Flexible Design Options
Up to 1000 VAC_{RMS}

PhMKP



Low Self-Inductance

HDMKP



Long Life Expectancy

DCMKP



High Reliability and Long Life Expectancy

ACMKP





VISHAY ESTA POWER FILM CAPACITORS

Focus Products

Power Electronic Capacitors									
Series	Rated Voltage min. (V)	Rated Voltage max. (V)	Capacitance min. (µF)	Capacitance max. (µF)	Rated Current min. (A)	Rated Current max. (A)	Dimensions min. to max. (mm)	Filling Agent	
	ACMKP-Tubular	1000	3000	0.2	10	5	20	84.4 x 140 to 340	Dry
	Low PD level; high reliability and life expectancy								
	GLI-A	700	2150	7.5	230	20	80	87 x 44 to 87	Dry
	Low inductance; low losses at high frequencies; high current ratings; custom designs available								
	GLI-I	700	2150	7.5	230	20	80	87 x 44 to 87	Dry
	Low inductance; low losses at high frequencies; high current ratings; custom designs available								
	GLI-B	700	2150	7.5	230	20	80	87 x 44 to 87	Dry
	Low inductance; low losses at high frequencies; high current ratings; custom designs available								
	HDMKP	900	2700	40	2235	17	120	84.4 to 116 x 105 to 260	Dry
	High impulse current rating; low inductance; compact design								

Power Electronic Capacitors									
Series	Rated Voltage min. (V)	Rated Voltage max. (V)	Capacitance min. (µF)	Capacitance max. (µF)	Rated Current min. (A)	Rated Current max. (A)	Filling Agent	Application	
	DCMKP - Rectangular	800	25 000	50	20 000	100	800	Dry	DC-link
	High RMS and impulse current rating; low inductance; high reliability and life expectancy; custom designs available								
	DCMKP - Rectangular	800	25 000	50	20 000	100	800	Dry	HVDC, power transmissions
	High RMS and impulse current rating; low inductance; high reliability and life expectancy; custom designs available								
	ACMKP - Rectangular	200	3000	50	5 000	100	800	Dry	AC-filter
	High RMS and impulse current rating; low inductance; high reliability and life expectancy; custom designs available								
	DCMKP - Rectangular	800	25 000	50	20 000	100	800	Dry	Industrial drives
	High RMS and impulse current rating; low inductance; high reliability and life expectancy; custom designs available								

Low Voltage Power Capacitors									
Series	Rated Voltage min. (V)	Rated Voltage max. (V)	Output min. (kvar)	Output max. (kvar)	Capacitance min. (µF)	Capacitance max. (µF)	Dimensions min. to max. (mm)	Filling Agent	
	PhMKP 3-phase	230	1000	2.5	14	Δ 3 x 11.5	Δ 3 x 100.3	64 x 190 to 265	Dry or oil
	MKP film; self-healing; all-phase tear-off fuse system; slim diameter; stacked winding elements; IP20								
	PhMKP 1-phase	230	690	2.5	10	1 x 49.7	1 x 251.0	64 x 82 to 240	Oil
	MKP film; self-healing; all connection tear-off fuse system; slim diameter; IP20								
	PhMKP 3-phase	230	1000	8.33	30	Δ 3 x 20.3	Δ 3 x 300.9	84.4 x 190 to 340	Dry or oil
	MKP film; self-healing; all-phase tear-off fuse system; slim diameter; stacked winding elements; IP00 or IP20								
	PhMKP 1-phase	230	690	5	20	1 x 165.7	1 x 332.2	84.4 x 140 to 240	Oil
	MKP film; self-healing; all connection tear-off fuse system; slim diameter; IP00 or IP20								
	PhMKP 3-phase	230	1000	10	37.1	Δ 3 x 77.0	Δ 3 x 335.0	116 x 160 to 265	Dry or oil
	MKP film; self-healing; all-phase tear-off fuse system; low profile height; stacked winding elements; IP20								
	PhMKP 3-phase	400	1000	25	37.1	Δ 3 x 115.4	Δ 3 x 219.3	136 x 190 to 230	Dry or oil
	MKP film; self-healing; all-phase tear-off fuse system; low profile height; stacked winding elements; IP20								



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VISHAY ESTA POWER FILM CAPACITORS

Focus Products


Three Phase Low-Voltage Power Capacitors

Series	Rated Voltage min. (V)	Rated Voltage max. (V)	Output min. (kvar)	Output max. (kvar)	Capacitance min. (μ F)	Capacitance max. (μ F)	Dimensions min. to max. (mm)	Installation
 PhMKDg 3-phase	230	1000	30	56.2	Δ 3 x 115.5	Δ 3 x 331.6	Δ 160 x 210	Indoor
	MKP film; self-healing; dry; all-phase tear-off fuse system; very compact 50 kvar unit with low profile height; M10 connection bolts; IP00							
 PhMKDgF 3-phase	230	1000	30	56.2	Δ 3 x 115.5	Δ 3 x 331.6	Δ 160 x 210	Outdoor
	MKP film; self-healing; dry; all-phase tear-off fuse system; very compact 50 kvar unit with low profile height; M10 connection bolts; IP00; for upside-down outdoor pole-mounting; full aluminum casing with welded top; no painting required							

Three Phase High-Voltage Power Capacitors

Series	Connection	Rated Voltage max. (kV)	Insulation Level (kV)	Output min. (kvar)	Output max. (kvar)	Frequency (Hz)	Filling Agent	Installation	
	All-film dielectric; polypropylene; low losses 0.15 W/kvar; biodegradable; IEC 60871; ANSI / IEEE; CSA; with pressure switch								
	Phao 3.3/.../D	Three phase	3300	3600	50	600	50 to 60	Synthetic oil	Indoor
	Phao 4.16/.../D	Three phase	4160	7200	50	650	50 to 60	Synthetic oil	Indoor
	Phao 6.6/.../D	Three phase	6600	7200	50	650	50 to 60	Synthetic oil	Indoor
	Phao 11/.../D	Three phase	11 000	12 000	50	750	50 to 60	Synthetic oil	Indoor

Single Phase High-Voltage Power Capacitors

Series	Connection	Rated Voltage max. (kV)	Insulation Level (kV)	Output min. (kvar)	Output max. (kvar)	Frequency (Hz)	Filling Agent	Installation	
	With or without internal fuses; all-film dielectric; polypropylene; low losses 0.15 W/kvar; biodegradable; IEC 60871; ANSI / IEEE; CSA								
	Phao 3.64/kvar/1	Single phase	3640	7200	50	800	50 to 60	Synthetic oil	Indoor
	Phao 6.35/kvar/1	Single phase	6350	12 000	50	900	50 to 60	Synthetic oil	Indoor
	Phao 8.66/kvar/1	Single phase	8660	17 500	50	900	50 to 60	Synthetic oil	Indoor
	Phao 12.7/kvar/1	Single phase	12 700	24 000	50	900	50 to 60	Synthetic oil	Indoor
	Phao 19.9/kvar/1	Single phase	19 900	36 000	50	800	50 to 60	Synthetic oil	Indoor
	Phafo 3.64/kvar/1	Single phase	3640	7200	50	800	50 to 60	Synthetic oil	Outdoor
	Phafo 6.35/kvar/1	Single phase	6350	12 000	50	900	50 to 60	Synthetic oil	Outdoor
	Phafo 8.66/kvar/1	Single phase	8660	17 500	50	900	50 to 60	Synthetic oil	Outdoor
Phafo 12.7/kvar/1	Single phase	12 700	24 000	50	900	50 to 60	Synthetic oil	Outdoor	

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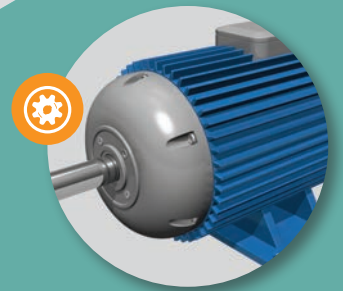
Vishay ESTA Power Capacitors Offer Custom Designs for the Best Power Solutions

Advantages of Vishay ESTA Power Capacitors

- High power
- Low losses
- High reliability
- Compact design

For the Following Applications

- Power factor correction (PFC) and filtering
- Industrial drives
- Power transmission, FACTS, HVDC
- Induction heating



Use DCMKP for long life expectancy



Use PhMKP in your wind turbine applications for flexible Green design options

Useful Links

- Vishay ESTA Power Capacitors Gateway Page www.vishay.com/capacitors/power-heavy-current/
- For more information, please contact: esta@vishay.com



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