



VISHAY ESTA POWER CAPACITORS

ACMKP



Capacitors - ESTAdry ACMKP-IP20 Low Voltage

ESTAdry ACMKP LVAC Capacitors (for Asian markets only)



KEY BENEFITS

- Compact design with high outputs up to 30 kvar
- Very low losses: < 0.25 W per kvar
- Optimized diameter and height for excellent heat dissipation

APPLICATIONS

Vishay ESTA capacitors are suitable for use in standard duty, heavy duty and ultra heavy duty PFC applications. Target applications for these capacitors include:

- Automatic PFC capacitor panels
- Wind turbines
- Individual fixed compensation (e.g. motors, transformers)
- Group fixed compensation
- Tuned and detuned harmonic filters
- AC filters (e.g. UPS, frequency drives, converters)

RESOURCES

- Datasheet: ACMKP - <http://www.vishay.com/doc?13104>
- For inquiries contact ESTAsales@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



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Technical Data	
Standards	IEC 60831-1+2, EN 60831-1+2, IS 13340
Approvals	UL, ULc, B IS
Over-voltages (in accordance with the above standards)	Ucn + 10 % (up to 8 hours daily), Ucn + 15 % (up to 30 minutes daily) Ucn + 20 % (up to 5 minutes), Ucn + 30 % (up to 1 minute)
Tolerances on capacitance	± 5 %
Routine test voltage, terminal/terminal	2.15 x Ucn, AC, 2 seconds
Losses	< 0.25.....< 0.45 W/kVAR
Degree of protection	IP20 (terminal cover for higher protection class – IP54 upon request), Indoor mounting
Permitted casing temperature	Max. 65 °C (measured on top of the can)
Cooling	Naturally air-cooled
Permissible relative humidity	Maximum 95 %
Maximum allowed altitude	2000 m above sea level
Mounting position	Vertical and horizontal
Mounting and grounding	Threaded M 12 stud at the bottom of the container, max. torque 10 N m
Safety features	ALL-PHASE over pressure tear-off fuse (irreversible current interruption), self-healing film technology
Casing	Aluminum
Dielectric	Polypropylene film, self-healing
Filling agent	Dry (gas filled) and oil filled
Standard Duty	
Over-current	1.5 x I _N
Inrush current	200 x I _N
Life expectancy	≥ 115 000 operating hours
Routine test voltage, terminal/casing	3000 VAC, 10 seconds
Ambient temperature category	- 25/D
Rated O/P - Rated Voltage	2.5 kVAR to 25 kVAR in 400 V 1 kVAR to 30 kVAR in 400/440 V
Heavy Duty	
Over-current	1.8 x I _N
Inrush current	250 x I _N
Life expectancy	≥ 130 000 operating hours
Routine test voltage, terminal/casing	4800 VAC, 2 seconds
Ambient temperature category	- 40/D
Rated O/P - Rated Voltage	1 kVAR to 30 kVAR in 415/440 V 5 kVAR to 30 kVAR in 525/480 V 5 kVAR to 25 kVAR in 660/690 V
Ultra Heavy Duty	
Over-current	2.5 x I _N
Inrush current	300 x I _N
Life expectancy	≥ 150 000 operating hours
Routine test voltage, terminal/casing	4800 VAC, 2 seconds
Ambient temperature category	- 25/70 °C
Rated O/P - Rated Voltage	5 kVAR to 25 kVAR in 415/440 V 5 kVAR to 25 kVAR in 525/480 V 5 kVAR to 25 kVAR in 660/690 V

