Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	**FHP Motor Capacitors**
Ordering code:	**B32328E***
Date:	2023-02-06
Version:	3

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Construction

- Metallized polypropylene film
- Plastic case
- Polyurethane
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- High insulation resistance
- P0 safety class

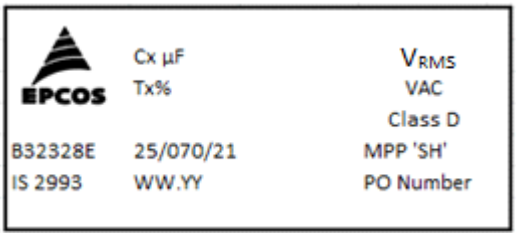
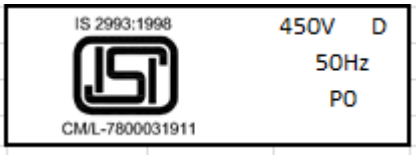
Typical applications

- For general sine wave applications, mainly as motor run capacitor for FHP motors

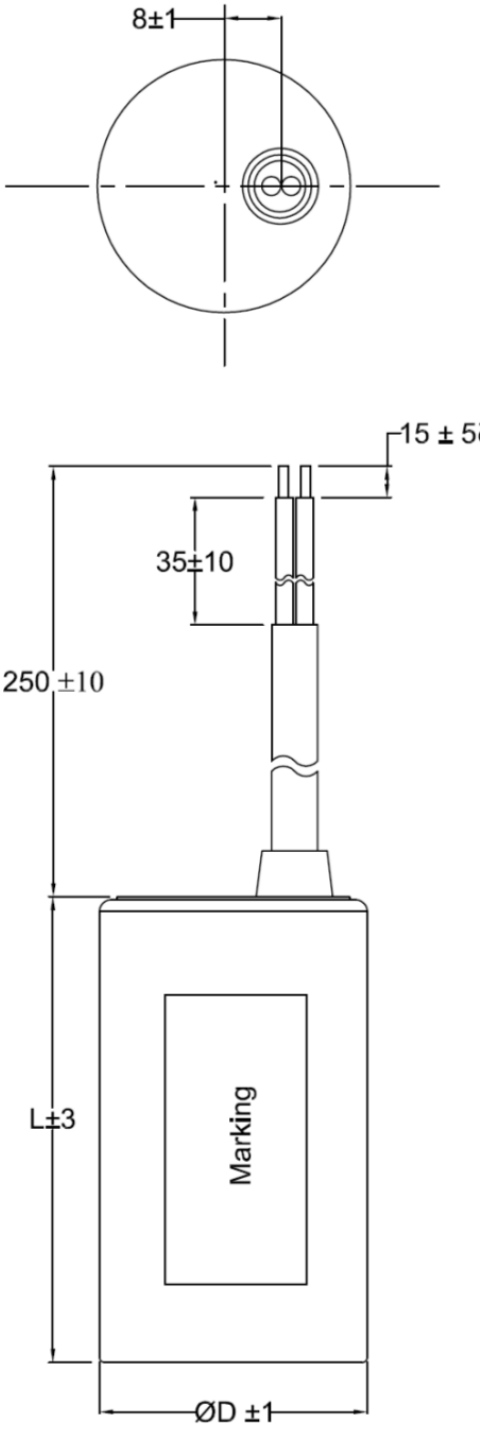
Terminals

- Wire with sleeve

Technical data and specifications		
Reference standards	IS 2993	
Class of safety protection	P0	
Life expectancy	450 V/+70 °C(Class D)	
Rated capacitance C_R	As per the dimension table	
Tolerance	±5%, other tolerances upon request	
Rated voltage V_R	450 V AC	
Rated frequency f_R	50 Hz	
Maximum ratings		
Maximum permissible voltage V_{max}	1.1 V_R	(V_R = rated voltage)
Maximum permissible current I_{max}	1.3 I_R	(I_R = rated current)

Test data	
AC test voltage terminal to terminal V_{TT}	2 V_R, 2 s (routine test) 2 V_R, 60 s (type test)
Insulation resistance R_{ins} or time constant τ at+ 20 °C, Rel. Humidity ≤ 65%(minimum as-delivered values)	3000 s
Dissipation factor tan δ at +20 °C	≤ 10 x10^{-3} (1KHz)
Maximum rate of voltage rise dv/dt_{max}	10 V/µs
Climatic data	
Climatic category	25/070/21 to IEC 60068-1
Lower category T_{min}	–25 °C
Upper category T_{max}	+70 °C
Damp heat test t_{test}	21 days
Mechanical and thermal properties	
Can and top disk material	Plastic as per IS 2993
Compatibility to RoHS	
Compliance to directive 2011/65/EU	RoHS compatible
Marking	  Where, Cx – Capacitance Value V_{RMS} –rated AC voltage Tx%– Tolerance on capacitance WW.YY – Week code P.O. Number. – Internal traceability number

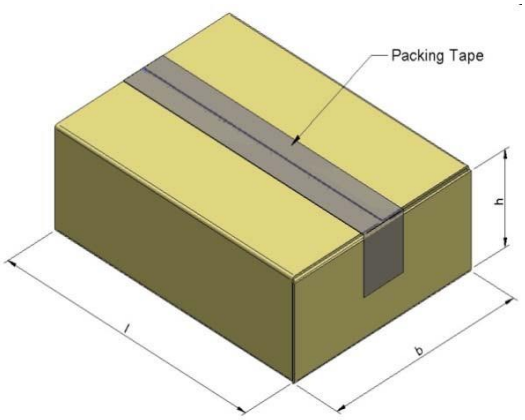
Dimensional drawings



Ordering codes and packing units

Voltage VAC	Capacitance µF	Dimensions øD x L (mm)	Ordering code
450	5	25 x 48	B32328E6505J018
	6	25 x 55	B32328E6605J018
	8	30 x 60	B32328E6805J018
	10	30 x 60	B32328E6106J018
	12.5	35 x 60	B32328E6126J518
	15	35 x 60	B32328E6156J018
	20	35 x 70	B32328E6206J018
	30	35 x 95	B32328E6306J018
	36	35 x 95	B32328E6366J018
	40	40 x 95	B32328E6406J018
	45	40 x 95	B32328E6456J018
	50	45 x 95	B32328E6506J018

Packaging specification



Dimensions	Unit carton				Master carton			
D x L (mm)	l ± 10	b ± 10	h ± 10	Qty	l ± 10	b ± 10	h ± 10	Qty
25 x 48	345	175	175	50	640	320	410	300
30 x 60	410	210	110	50	430	430	370	300
35 x 60	410	210	110	50	430	430	370	300
35 x 70	410	210	110	50	430	430	370	300
35 x 95	460	235	135	50	480	500	290	200
40 x 95	460	235	135	50	480	500	290	200
45 x 95	255	255	150	25	180	540	310	100

Cautions and warnings

Cautions and warnings

⚠ Please read “Applications warning, installation and maintenance instructions” and the “General Safety Data Sheet for Power Capacitors” issued by ZVEI, which are available on the internet at www.tdk-electronics.tdk.com/ac_capacitors, to ensure optimum performance and to prevent products from failing, and in worst case, bursting and fire. Information given in the data sheet reflects typical specifications. You are kindly requested to approve our product specifications or request our approval for our specification before ordering.

Product for sales in India only

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Important notes

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