



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	FHP Motor Capacitors
Ordering code:	B32320E*
Date:	2023-02-06
Version:	3

Construction

- Metallized polypropylene film
- Plastic case
- Polyurethane resin
- 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

- 6.3 x 0.8 mm insert mold terminals






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	50Hz	
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)

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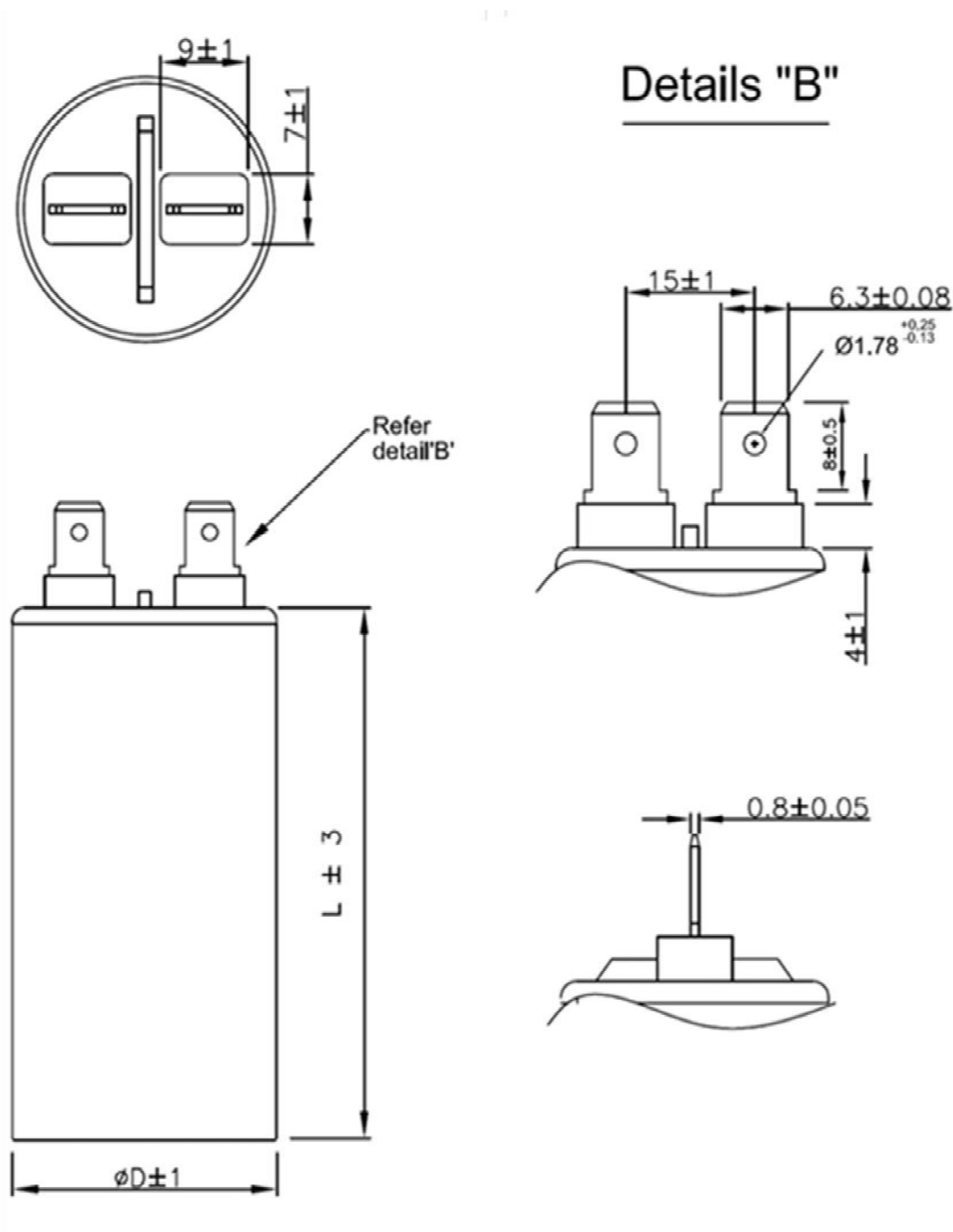
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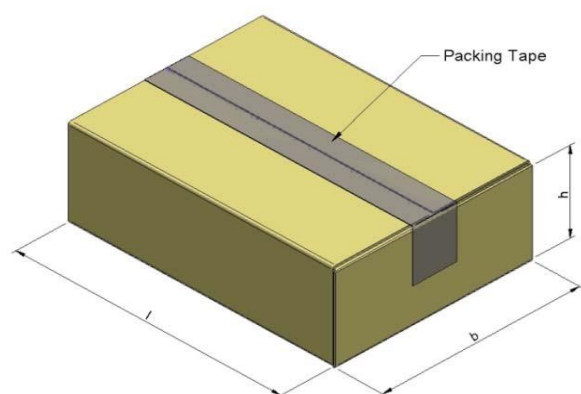
Test data	
AC test voltage terminal to terminal V_{TT}	2 V_R , 2 s (routine test) 2 V_R , 60 s (type test)
Insulation resistance R_{ins} or time constant τ at +20 °C, Rel. Humidity $\leq 65\%$ (minimum as-delivered values)	3000 s
Dissipation factor $\tan \delta$ at +20 °C	$\leq 7.0 \times 10^{-3}$ (1KHz)
Maximum rate of voltage rise dv/dt_{max}	10 V/ μ s
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	
Marking details	<div>  <div> $C_x \mu F$ $T_x\%$ </div> <div> V_{RMS} VAC Class D MPP 'SH' PO Number </div> </div> <div> <div> IS 2993:1998  CML-7800031911 </div> <div> 450V D 50Hz PO </div> </div> <p>Where, C_x - Capacitance Value V_{RMS} - rated AC voltage $T_x\%$ - Tolerance on capacitance WW.YY - Week code P.O. Number. – Internal traceability number</p>

Dimensional drawing



Ordering codes and packing units

Voltage V AC	Capacitance μF	Dimensions $\phi\text{D} \times \text{L}$ (mm)	Ordering code
450V	2.5	25 x 48	B32320E6255J010
	3	25 x 48	B32320E6305J010
	4	25 x 48	B32320E6405J010
	5	25 x 48	B32320E6505J010
	6	25 x 55	B32320E6605J010
	8	30 x 55	B32320E6805J010
	10	30 x 55	B32320E6106J010
	12	35 x 60	B32320E6126J510
	12.5	35 x 60	B32320E6126J510
	15	35 x 60	B32320E6156J010
	20	35 x 70	B32320E6206J010

Packing specification


Dimensions D x L (mm)	Unit carton				Master carton			
	l ± 10	b ± 10	h ± 10	Qty	l ± 10	b ± 10	h ± 10	Qty
25 x 48	360	160	25	98	375	335	175	490
30 x 55	360	160	25	69	375	375	175	345
35 x 60	360	160	25	48	375	316	175	192
35 x 70	360	160	25	48	375	356	175	192

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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