



## Film Capacitors – AC Capacitors

### Motor run capacitors

<b>Series/Type:</b>	<b>FHP Motor Capacitors</b>
<b>Ordering code:</b>	<b>B32320E*</b>
Date:	2018-08-16
Version:	2

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**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**

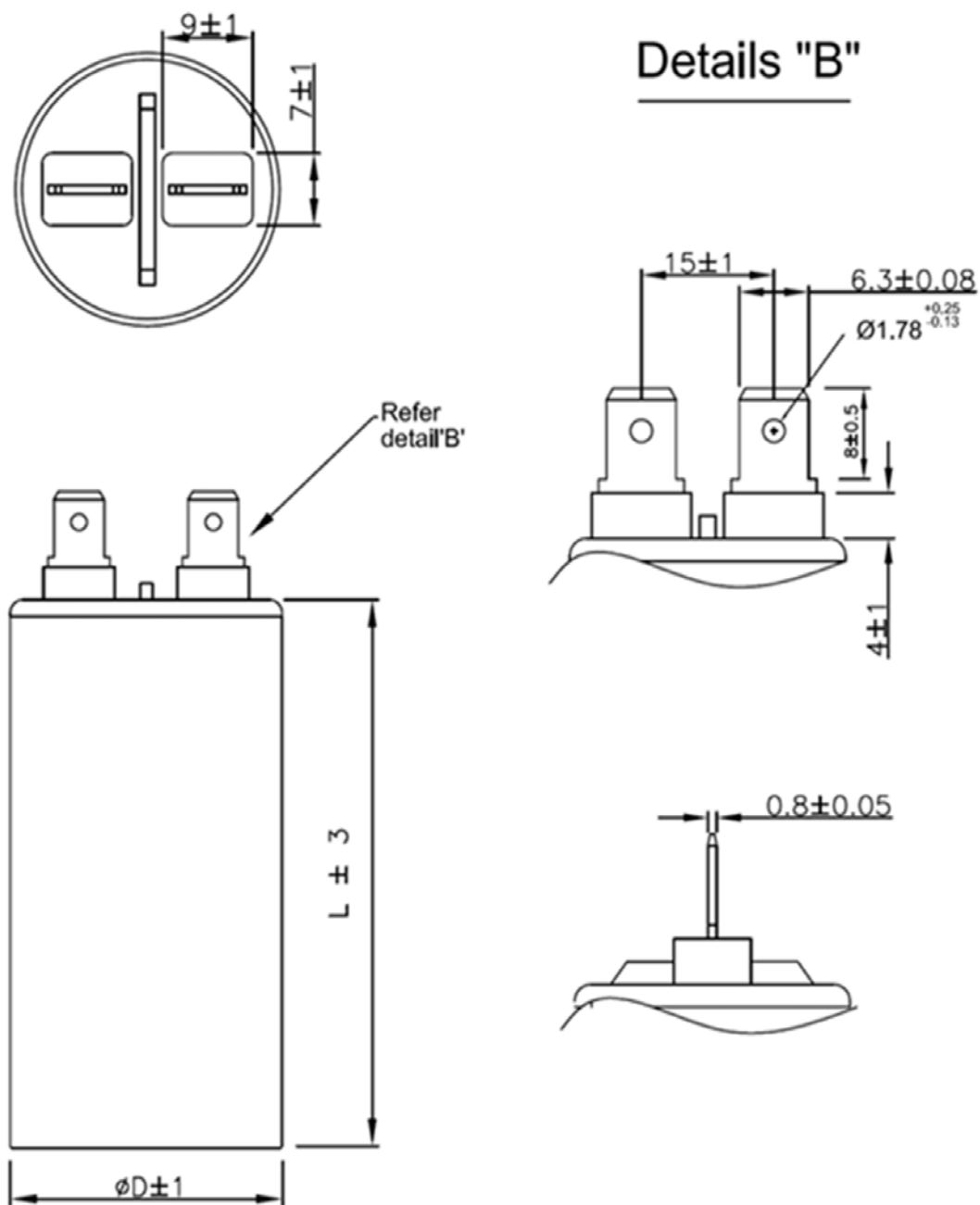
Reference standards	IS 2993
Class of safety protection	P0
Life expectancy	450 V/+70 °C (Class D)
Rated capacitance $C_R$	As per the dimension table
Tolerance	±5%, other tolerances upon request
Rated voltage $V_R$	450 V AC
Rated frequency $f_R$	50Hz

**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)

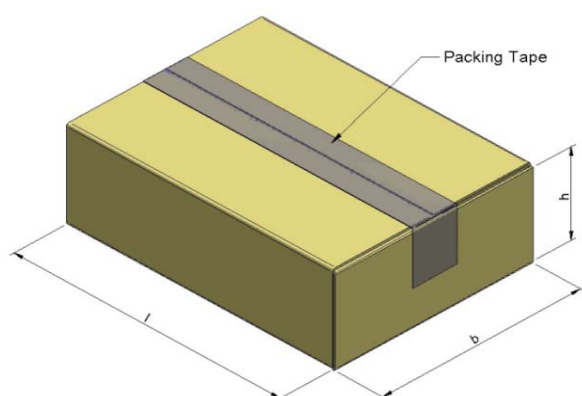
<b>Test data</b>	
AC test voltage terminal to terminal $V_{TT}$	2 $V_R$ , 2 s (routine test) 2 $V_R$ , 60 s (type test)
Insulation resistance $R_{ins}$ or time constant $\tau$ at +20 °C, Rel. Humidity $\leq$ 65% (minimum as-delivered values)	3000 s
Dissipation factor $\tan \delta$ at +20 °C	$\leq 7.0 \times 10^{-3}$ (1KHz)
Maximum rate of voltage rise $dv/dt_{max}$	10 V/ $\mu$ s
<b>Climatic data</b>	
Climatic category	25/070/21 to IEC 60068-1
Lower category $T_{min}$	-25 °C
Upper category $T_{max}$	+70 °C
Damp heat test $t_{est}$	21 days
<b>Mechanical and thermal properties</b>	
Can and top disk material	Plastic as per IS 2993
<b>Compatibility to RoHS</b>	
Compliance to directive 2011/65/EU	
Marking details	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  Cx <math>\mu</math>F Tx% B32320E 25/070/21 IS 2993 WW.YY  <div style="float: right; text-align: right;"> <math>V_{RMS}</math> VAC Class D MPP 'SH' PO Number </div> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  450V D 50Hz PO CML-7800031911 </div> <p>Where,  Cx - Capacitance Value  <math>V_{RMS}</math> - rated AC voltage  Tx% - 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 $\mu\text{F}$	Dimensions $\varnothing\text{D} \times \text{L}$ (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 $\pm 10$	b $\pm 10$	h $\pm 10$	Qty	l $\pm 10$	b $\pm 10$	h $\pm 10$	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.epcos.com/ac\\_capacitors](http://www.epcos.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.

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## Important notes

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