Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	**Dual Motor Cap™ for washing machine application**
Ordering code:	**B32418S***
Date:	2023-02-06
Version:	3

Construction

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

Features

- Self-healing properties
- Low dissipation factor
- High insulation resistance
- Integrated with mounting groove

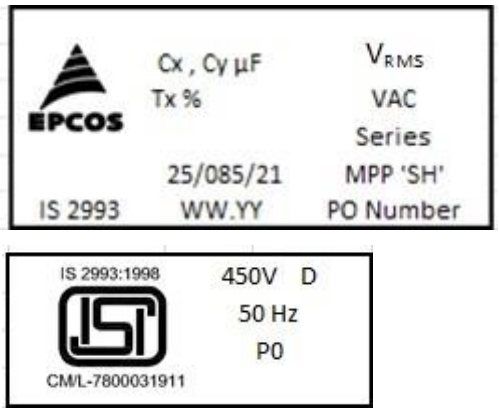
Typical applications

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

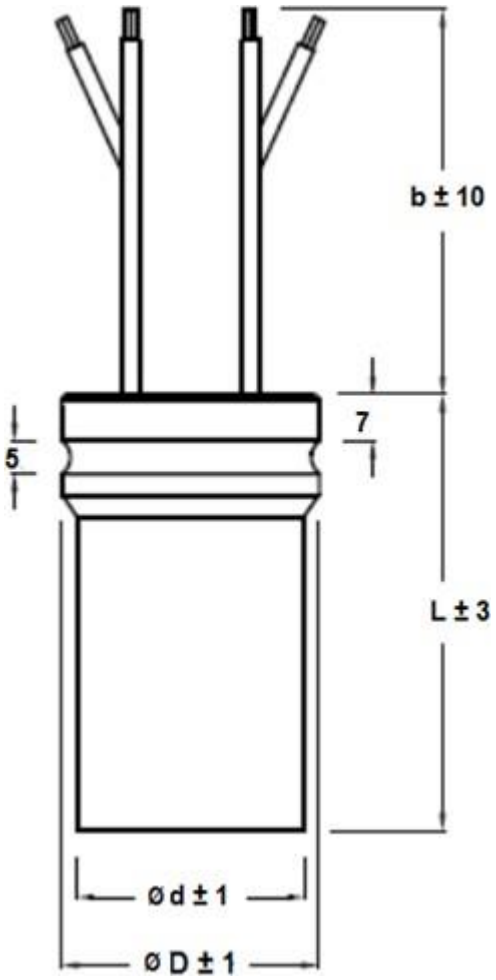
Terminals

- Flexible lead wires
- Receptacles on request: crimped to the end of flexible wires

Technical data and specifications		
Reference standards	IS 2993	
Safety class to IS 2993	P0	
Life expectancy to IS 2993	440 V/+70 °C: 3000 h (Class C)	
Rated capacitance C_R	See dimension table	
Tolerance	±5%	
Rated voltage V_R	440 V	
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, 10 s (type test)
Insulation voltage terminals to case	2000 Vac
Insulation resistance R_{is} time constant at + 20°C Rel. Humidity ≤ 65 °C (minimum value)	3000 s
Maximum rate of voltage rise dv/dt_{max}	10 V/µs
Dissipation factor tan δ at +20 °C	≤ 7 x 10^{-3} (1KHz)
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, Cy – Capacitance value V_{RMS} – Rated AC voltage Tx% –Tolerance on capacitance Series--B32418S WW.YY – Week code PO Number – Internal traceability number

Dimensional drawing

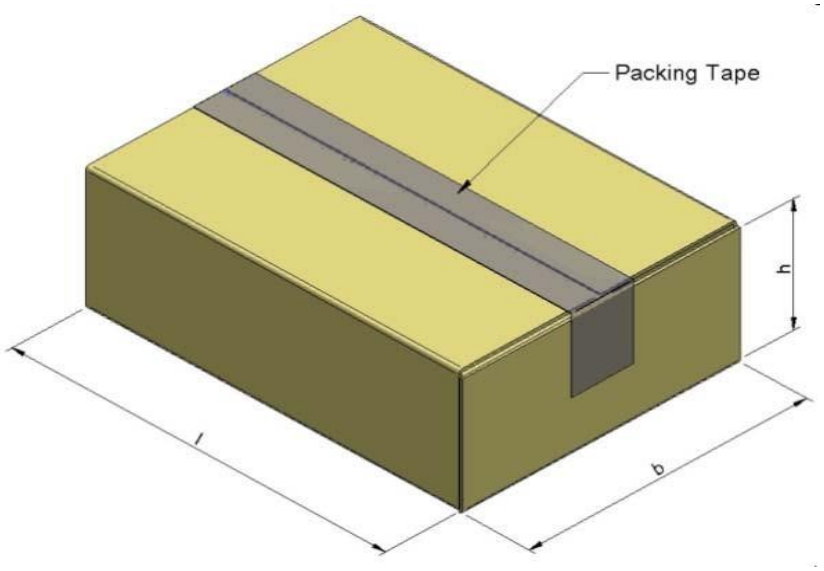


Ordering codes and packing units

Voltage VAC	Capacitance 1 µF	Capacitance 2 µF	Dimension (D + d x L) mm	Ordering code
440	5.3	2.1	40 + 35 x 62	B32418S5745J02*
	7	4	40 + 35 x 62	B32418S5116J02*
	8	4	40 + 35 x 62	B32418S5126J02*
	8	6	40 + 35 x 62	B32418S5146J22*
	10	4	40 + 35 x 62	B32418S5146J02*
	9.5	4	40 + 35 x 62	B32418S5146J52*
	10	5.5	40 + 35 x 62	B32418S5156J52*
	10	5	40 + 35 x 62	B32418S5156J02*
	9	5	40 + 35 x 62	B32418S5146J12*
	9	6	40 + 35 x 62	B32418S5156J12*
	10	6	40 + 35 x 62	B32418S5166J02*
	8.5	5	40 + 35 x 62	B32418S5136J52*

***Indicates wire length which is optional as per customer request**

Packaging specification



Dimensions D x L (mm)	Unit carton				Master carton			
	l ±10	b ±10	h ±10	Qty	l ±10	b ±10	h ±10	Qty
40 + 35 x 62	465	235	110	50	490	480	240	200

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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