Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	**FHP MotorCap**
Ordering code:	**B32327***
Date:	2019-05-21
Version:	0

Construction

- Metallized polypropylene film
- Plastic case and top
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- High insulation resistance
- S0 safety class to IEC60252-1

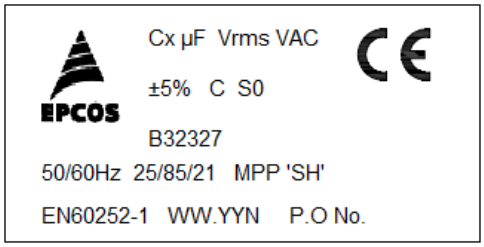
Typical applications

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

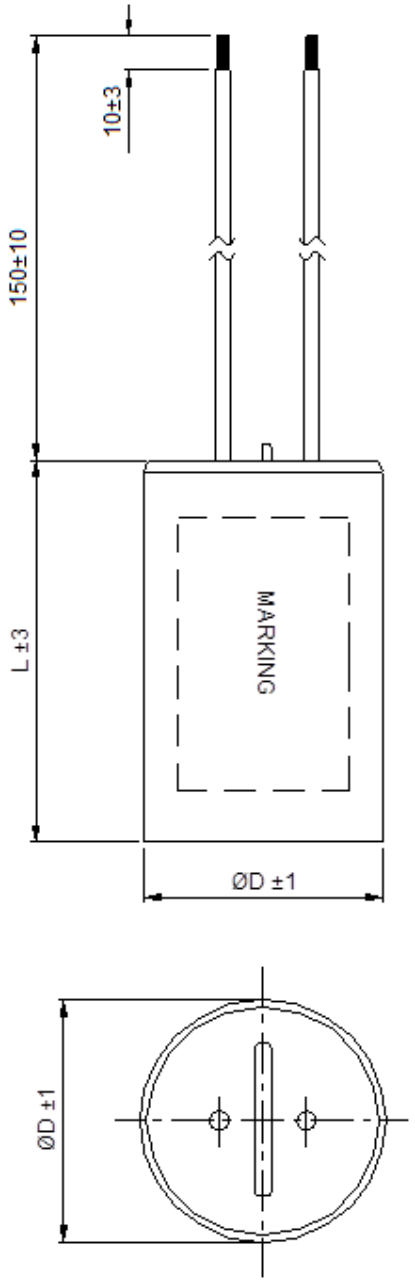
Terminals

- Insulated copper wire, 0.5mm^2 minimum

Technical data and specifications	
Reference standards	IEC 60252-1 /EN60252-1
Class of safety protection	S0
Life expectancy	450 V/+85°C : Class C
Rated capacitance C_R	As per the dimension table
Tolerance	±5%
Rated voltage V_R	450V AC
Rated frequency f_R	50 / 60 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	≤ 1.0 x10^{-2} (1kHz)
Maximum rate of voltage rise dv/dt_{max}	10 V/µs
Climatic data	
Climatic category	25/85/21 to IEC 60068-1
Lower category T_{min}	–25 °C
Upper category T_{max}	+85 °C
Damp heat test t_{test}	21 days
Mechanical and thermal properties	
Plastic can material	Compliant to IEC 60252-1
Compatibility to RoHS	
Compliance to directive 2011/65/EU	RoHS compatible
Approvals	
CE	Compliance to LV directive 2014/35/EU
Marking	
	 Where, Cx - Capacitance Value V_{RMS} - rated AC voltage WW.YYN - Week code P.O. No. – Internal traceability number

Dimensional drawing



*** All dimensions are in mm**

Ordering codes and packing units

Voltage V_R AC	Capacitance C_R µF	Dimensions øD x L (mm)	Ordering code	Packing unit pcs
450	3.5	25 X 60	B32327B6355J 15	112
	4	25 X 60	B32327B6405J 15	112
	8	35 X 71	B32327B6805J 15N 1	84
	10	40 X 70	B32327B6106J 15N 1	45
	12.5	40 X 70	B32327B6125J 15	45
	16	40 X 70	B32327B6166J 15	45
	20	40 X 70	B32327B6206J 15	45
	30	40 X 95	B32327B6306J 15	45
	40	45 X 95	B32327B6406J 15	45
	50	50 X 95	B32327B6506J 15	45

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.

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