

Film Capacitors - AC Capacitors

Motor run capacitors

Series/Type: FHP Motor Capacitors

Ordering code: B32320R*/B32322R*/B32327R*/B32328R

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FHP Motor Capacitors

Construction

- Dielectric: polypropylene film
- Plastic case with plastic top
- Polyurethane resin
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- S0/P0 safety class
- High insulation resistance







Typical applications

For general sine wave applications, mainly as motor run capacitor

Terminals

- Fast on terminals (single fast-on B32320, double fast-on B32322)
- Flexible lead wire B32327
- Insulated cable or wire with sleeve B32328

Mounting parts (optional)

- Threaded stud at bottom of can (M8, max. torque = 5 Nm)
- Plain can

Technical data and specifications			
Reference standards	IEC60252-1		
	IS 2993		
Life expectancy to IEC 60252-1	440V, +85°C:10000 h (Class B)		
Safety class to IEC 60252-1/ IS 2993	S0 / P0		
Rated capacitance C _R	See table ordering codes, page 6		
Tolerance	\pm 5%, other tolerances upon request		
Permitted capacitance ΔC/C	≤ 3%		
Rated voltage V _R	440 V 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)		



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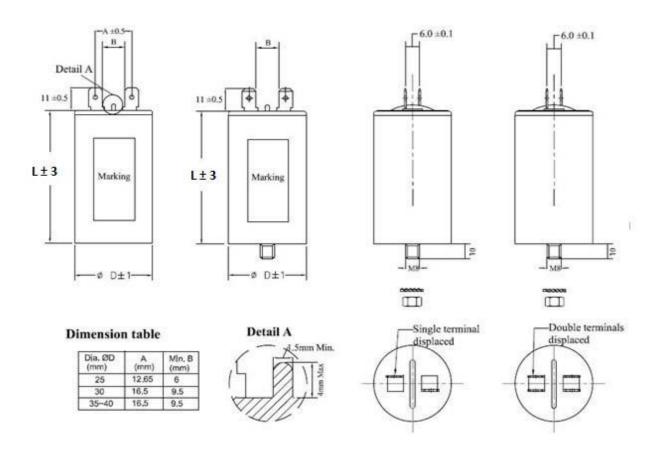
Test data			
AC test voltage terminal to terminal V _{TT}	2 V _R , 2 s (routine test) 2 V _R , 60 s (type test)		
Insulation resistance R_{ins} or time constant τ at +20 °C, Rel. humidity max. value 85%, annual means \leq 65%	3000 s		
Dissipation factor tan δ at+ 20 °C	≤ 7.0 x 10 ⁻³ (1KHz)		
Maximum rate of voltage rise dv/dt _{max}	10 V/μs		
Climatic data			
Climatic category	25/085/21		
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 and top disk material	Plastic as per IEC60252-1		
Compatibility to RoHS			
Compliance to directive 2011/65/EU	RoHS		
Marking	Cx µF VRMS B Tx% VAC SO 25/085/21 Series MKP 'SH' No PCB's EN60252-1 Made by EPCOS PO Number WW. YYYY Where, Cx — Capacitance Value VRMS— rated AC voltage Tx% — Tolerance on capacitance Series -B32320R/B32322R/B32327R/B32328R WW.YYYY — Week code PO Number. — Internal traceability number		



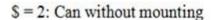
FHP Motor Capacitors

Dimensional drawings

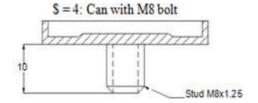
Series single fast-on, B32320 and Series double fast-on, B32322



Mounting options



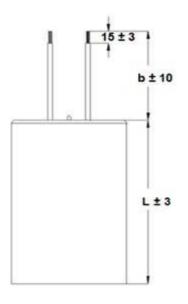




FHP Motor Capacitors

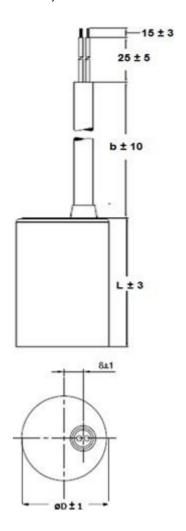
Dimensional drawings

Series lead wire terminals





Series, B32328 wire with sleeve





FHP Motor Capacitors

Ordering codes and packing unit

V_R	C _R	Dimensions øD x L (mm)	Dimensions	Ordering code	Packing unit (pcs.)	Packing unit (pcs.)
VAC	μF	B32320	øD x L (mm) B32322, B32327, B32328		B32320	B32322, B32327, B32328
440	2	25 x 62	30 x 62	B3232#-R5205-+0\$*	100	50
	3	25 x 62	30 x 62	B3232#-R5305-+0\$*	100	50
	4	25 x 62	30 x 62	B3232#-R5405-+0\$*	100	50
	5	30 x 62	30 x 62	B3232#-R5505-+0\$*	50	50
	6	30 x 62	30 x 62	B3232#-R5605-+0\$*	50	50
	7	30 x 62	30 x 62	B3232#-R5705-+0\$*	50	50
	8	35 x 62	35 x 62	B3232#-R5805-+0\$*	50	50
	10	35 x 62	35 x 62	B3232#-R5106-+0\$*	50	50
	12	35 x 73	35 x 73	B3232#-R5126-+0\$*	50	50
	15	40 x 73	40 x 73	B3232#-R5156-+0\$*	50	50
	16	40 x 73	40 x 73	B3232#-R5166-+0\$*	50	50
	18	40 x 73	40 x 73	B3232#-R5186-+0\$*	50	50
	20	40 x 73	40 x 73	B3232#-R5206-+0\$*	50	50
	25	45 x 73	45 x 73	B3232#-R5256-+0\$*	25	25
	30	40 x 98	40 x 98	B3232#-R5306-+0\$*	50	50
	36	45 x 98	45 x 98	B3232#-R5366-+0\$*	25	25
	40	45 x 98	45 x 98	B3232#-R5406-+0\$*	25	25
	45	50 x 98	50 x 98	B3232#-R5456-+0\$*	25	25
	50	50 x 98	50 x 98	B3232#-R5506-+0\$*	25	25
	60	50 x 98	50 x 98	B3232#-R5606-+0\$*	25	25



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Motor run capacitors

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Notes for ordering code:

#: Series of capacitor:

0 - Single fast-on 6.35 x 0.8 mm

2 - Double fast-on 6.35 x 0.8

mm7 - Flexible wire terminals

8 - Wire with sleeve

+: Tolerance on

capacitanceJ - ± 5%

\$: Construction

2 - Plastic can without mounting4 - Plastic can with M8 stud

*: Wire length (dimension 'b' in drawing) up on request

Cautions and warnings

A 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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