



Motor run capacitors

Series/Type: B32350/B32352 – MotorCap S3 Compact

Ordering code: B32350/B32352

Date: September 2016

Version: 9

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B32350/B32352

Motor run capacitors

B32350/B32352 – MotorCap S3 Compact

Construction

- Metallized polypropylene film
- Plastic can with plastic top
- Dry type resin

Features

- Self-healing properties
- Low dissipation factor
- Highest safety level S3 safety class to IEC60252-1 (ed.2) am1:
- High insulation resistance
- **Şu** file E 106388, component approval mark, on request
- EN 60335-1 compatible

Applications

 For general sine wave applications, mainly as motor run capacitor

Terminals

B32350 – Single Fast-on: 6.3 x 0.8 mm
 B32352 – Double Fast-on: 6.3 x 0.8 mm

Mounting parts (optional)

- Threaded stud at bottom of can (M8, max. torque = 5 Nm)
- Fast fixation for mounting into a hole of Ø 8 mm
- Mounting in any position possible

Technical data and specifications			
Reference standards	EN60252-1: 2014-07		
	IEC60252-1: Ed 2,2013-8,amendment 1		
Life expectancy to IEC 60252-1 /2013	400 V: 30000 h (class A)		
	450 V: 10000 h (class B)		
Safety class to IEC 60252-1/ 2013	S3		
UL 810 file E 106388	Approved component,10000 AFC protected up to 450 V (Approval mark upon request)		
Rated capacitance C _R	See table ordering codes, page 5, 6		
Tolerance	±5%		
Permitted capacitance ΔC/C	≤3%		
Rated voltage V _R	450 V AC		
Rated frequency f _R	50/60 Hz		







Film Capacitors – AC Capacitors	B32350/B32352	
Motor run capacitors	B32350/B32352 – MotorCap S3 Compact	
Maximum ratings		
Maximum permissible voltage V _{max}	1.1 · V_R (V_R = rated voltage)	
Maximum permissible current I _{max}	$1.3 \cdot I_R$ (I_R = rated current)	
Test data		
AC test voltage terminal to terminal U_{TT}	2 V _R , 2 s (routine test)	
	2 V _R , 60 s (type test)	
AC test voltage terminals to can U _{TC}	2 kV AC, 2 s (routine test)	
	2 kV AC, 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	≤1.0 ·10 ⁻³ (120 Hz)	
Maximum rate of voltage rise dv/dt _{max}	10 V/μs	
Climatic data		
Climatic category	25/085/21 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		
Ball pressure test to IEC 60309-1 sec. 27.3	20 N at 125 °C	
Tracking test to IEC 60112 solution A	>250 V	
Plastic can and top disk material	UL 94 V2 min/ Compliant to EN60252-1/ EN60335-1	
Glow wire test to IEC 60695 − 2 − 1 / 1 Test temp 550 ° C for $I_R \le 0.5$ A Test temp 750 ° C for $I_R \ge 0.5$ A	Self-extinguish within 2 s of withdrawing glow wire without igniting wrapping tissue to GWIT	
■ Part compliant to EN 60335-1 Glow wire test acc. to EN60335-1:2002 +A11+A1 +A12+Corr.+A2:2006, IEC60335-1 ed 4+A1+A2	Self extinguish within 2 s with GWT 750 °C and within 60 s with GWFI 850 °C of withdrawing the glow wire and without igniting the wrapping tissue	
Compatibility to RoHS		
Compliance to directive 2002/95/EC	RoHS	
Approvals		
VDF = 400 V/85 °C: 30000 h (class A)	Approved	

	compatible
Approvals	
VDE – 400 V/85 °C: 30000 h (class A)	Approved
VDE – 450 V/85 °C: 10000 h (class B)	Approved
FLI UL 810 E106388	Approved component 10000 AFC, protected up to 450 V
(€	Compliance to LV directive 2014/35/EU





B32350/B32352

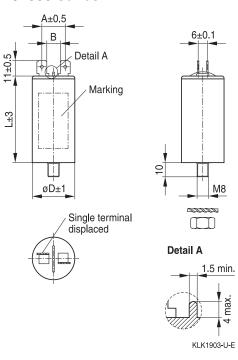
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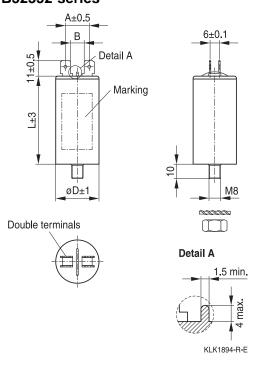
Logistics	
Delivery mode	EU pallet as standardCardboard tape on pallet Pack unit, see dimension table

Dimensional drawings

B32350-series

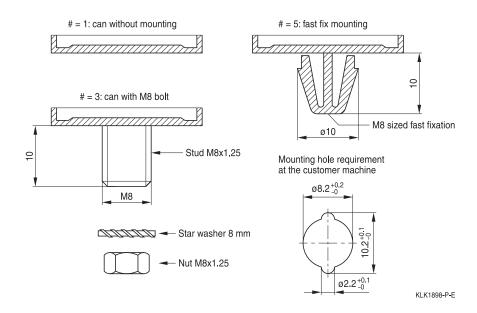


B32352-series



Dimension table

Dla, ØD (mm)	A (mm)	Mln. B (mm)
25	12.65	6
30	16.5	9,5
35~54	16.5	9.5







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Ordering codes and packaging units B32350-series (Single Fast-on connector)

V _R	C _R	Dimensions D × L	Ordering code	Packing units
V AC	μF	mm		pcs
	2	25 × 58	B32350A4205J0#0	112
	2.5	25 × 58	B32350A4255J0#0	112
	3	30 × 62	B32350A4305J0#0	112
	3.15	30 × 62	B32350A4315J5#0	112
	4	30 × 62	B32350A4405J0#0	112
	5	35 × 62	B32350A4505J0#1	84
	6	35 × 62	B32350A4605J0#0	84
	6.3	35 × 62	B32350A4635J0#0	84
	7	35 × 62	B32350A4705J0#0	84
	7.5	35 x 71	B32350A4755J0#0	84
400/450	8	35 × 71	B32350A4805J0#0	84
400/450	9	35 × 71	B32350A4905J0#0	84
	10	35 × 71	B32350A4106J0#0	84
	11	40 × 71	B32350A4116J0#0	60
	12	40 × 71	B32350A4126J0#0	60
	12.5	40 × 71	B32350A4126J5#0	60
	14	45 × 71	B32350A4146J0#0	45
	15	45 × 71	B32350A4156J0#0	45
	16	45 × 96	B32350A4166J0#0	45
	17.5	45 × 96	B32350A4176J5#0	45
	18	50 × 96	B32350A4186J0#0	32
	20	50 × 96	B32350A4206J0#0	32

Composition of ordering code

#: construction

- 1 plastic can
- 3 plastic can with M8 bolt
- 5 plastic can with fast fixation device, available for diameter 30 mm and 35 mm, others on request





B32350/B32352

Motor run capacitors

B32350/B32352 – MotorCap S3 Compact

Ordering codes and packing units B32352-series (Double Fast-on connector)

V _R	C _R	Dimensions D × L	Ordering code	Packing units
V AC	μF	mm		pcs
	2	30 × 62	B32352A4205J0#0	112
	2.5	30 × 62	B32352A4255J0#0	112
	3	30 × 62	B32352A4305J0#0	112
	3.15	30 × 62	B32352A4315J5#0	112
	4	30 × 62	B32352A4405J0#0	112
	5	35 × 62	B32352A4505J0#1	84
	6	35 × 62	B32352A4605J0#0	84
	6.3	35 × 62	B32352A4635J0#0	84
	7	35 × 62	B32352A4705J0#0	84
	7.5	35 x71	B32352A4755J0#0	84
400/450	8	35 × 71	B32352A4805J0#0	84
400/450	9	35 × 71	B32352A4905J0#0	84
	10	35 × 71	B32352A4106J0#0	84
	11	40 × 71	B32352A4116J0#0	60
	12	40 × 71	B32352A4126J0#0	60
	12.5	40 × 71	B32352A4126J5#0	60
	14	45 × 71	B32352A4146J0#0	45
	15	45 × 71	B32352A4156J0#0	45
	16	45 × 96	B32352A4166J0#0	45
	17.5	45 × 96	B32352A4176J5#0	45
	18	50 × 96	B32352A4186J0#0	32
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⚠ 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, 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 your specification before ordering.





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