



Film Capacitors – AC Capacitors

Motor Start Capacitor

Series/Type:	Substitute of Motor Start Application
Ordering code:	B32328F*
Date:	2018-08-16
Version:	3

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Construction

- Dielectric: 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 for motor start application

Terminals

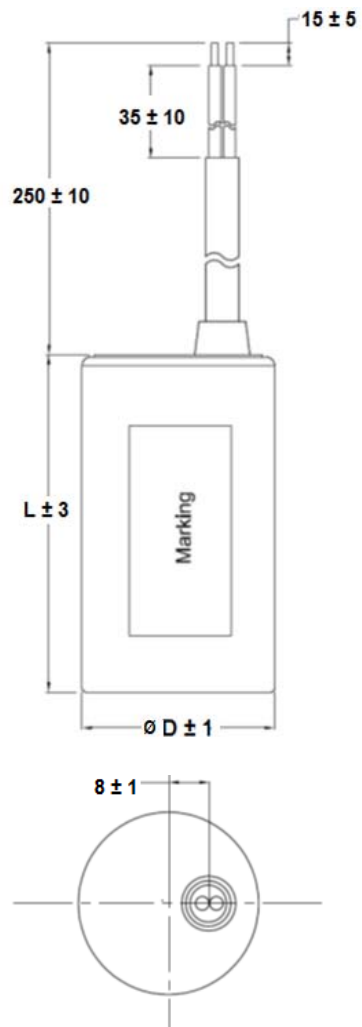
- Wire with sleeve



Technical data and specifications	
Reference standards	IS 2993
Safety class to IS 2993	P0
Rated maximum duty cycle	2.2%
Rated capacitance C_R	As per dimension table
Tolerance	± 5%
Rated voltage V_R	250 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)

Test data																			
AC test voltage terminal to terminal V_{TT}	2 V_R , 2 s (routine test) 2 V_R , 60 s (type test)																		
Dissipation factor $\tan \delta$ at +20 °C	$\leq 2.0 \times 10^{-2}$ (1KHz)																		
Maximum rate of voltage rise dv/dt_{max}	10 V/ μ s																		
Climatic data																			
Climatic category	25/070/21																		
Lower category T_{min}	-25 °C																		
Upper category T_{max}	+70 °C																		
Damp heat test t_{test}	21 days																		
Mechanical and thermal properties																			
Plastic can and top disk material	Compliant to IS 2993																		
Compatibility to RoHS																			
Compliance to directive 2011/65/EU																			
Marking	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <table style="display: inline-table; vertical-align: middle; margin-left: 10px;"> <tr> <td>C_x μF</td> <td>V_{RMS}</td> </tr> <tr> <td>T_x %</td> <td>VAC</td> </tr> <tr> <td></td> <td>25/070/21</td> </tr> <tr> <td>B32328F</td> <td>MPP 'SH'</td> </tr> <tr> <td>IS 2993</td> <td>PO Number</td> </tr> <tr> <td>WW.YY</td> <td></td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">IS 2993:1998</td> <td style="text-align: right;">250V PO</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: right;">Rated duty cycle</td> </tr> <tr> <td style="text-align: center;">CML-7800031911</td> <td style="text-align: right;">1min 2.2%,50Hz</td> </tr> </table> </div> <p style="text-align: center;">For Motor Start application(Range:X-Y)</p> <p>Where, C_x – Capacitance Value V_{RMS}– rated AC voltage $T_x\%$ - Tolerance on capacitance WW.YY – Week code PO No. – Internal traceability number X-Y – Capacitance range</p>	C_x μ F	V_{RMS}	T_x %	VAC		25/070/21	B32328F	MPP 'SH'	IS 2993	PO Number	WW.YY		IS 2993:1998	250V PO		Rated duty cycle	CML-7800031911	1min 2.2%,50Hz
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Dimensional drawing



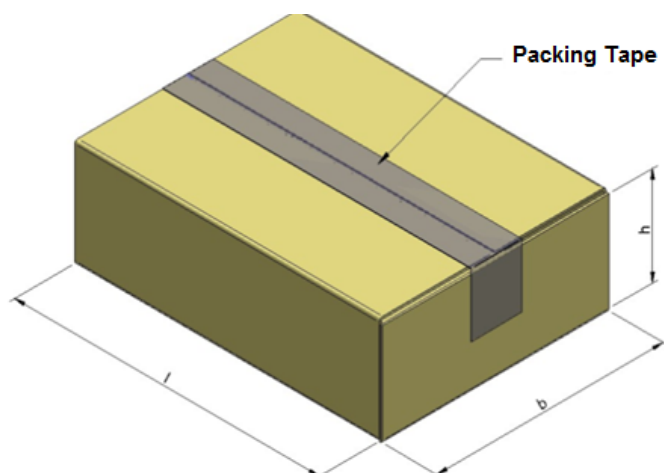
Ordering codes and packing units

Voltage	Capacitance	Dimensions	Ordering code
VAC	μF	ØD x L (mm)	
250	30	35 x 70	B32328F1306J018
	40	40 x 73	B32328F1406J018
	45	35 x 96	B32328F1456J018
	60	40 x 96	B32328F1606J018
	72	40 x 96	B32328F1726J018
	75	40 x 96	B32328F1756J018
	82	45 x 96	B32328F1826J018
	90	45 x 96	B32328F1906J018
	100	45 x 96	B32328F1107J0 18
	105	50 x 95	B32328F1107J518
	120	50 x 95	B32328F1127J018

EPCOS equivalent rating in advanced film technology construction for Motor start application

Motor start capacitor rating in Aluminum electrolytic construction	EPCOS Motor start capacitor in advanced film technology **
40-60	30
60-80	45
80-100	60
100-120	75
120-150	90
150-200	105
200-250	120

** The equivalent ratings given are only EPCOS recommendations. Customer shall take trials to finalise the suitable ratings in the respective applications.

Packing specification


Dimensions	Unit carton				Master carton			
	$l \pm 10$	$b \pm 10$	$h \pm 10$	Qty	$l \pm 10$	$b \pm 10$	$h \pm 10$	Qty
35 x 95	455	230	130	50	490	470	270	200
40 x 95	455	230	130	50	490	470	270	200
45 x 95	250	250	145	25	530	270	300	100
50 x 95	280	280	170	25	580	290	360	100

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, 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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