

## AC Film Capacitors

B 32330

## Motor run

B 32332

**Construction**

- Dielectric: polypropylene film
- Aluminum can
- Soft polyurethane resin

**Features**

- Self-healing properties
- Low dissipation factor
- Overpressure disconnecter
- High insulation resistance

**Typical applications**

For general sine wave applications,  
mainly as motor run capacitor

**Terminals**

- Single (B32330 series) or  
Double (B32332 series) fast on 6,3 x 0,8 mm

**Mounting parts**

- Metal stud (max. torque = 5 Nm)

**Technical data and specifications**

|   |                                      |  |
|---|--------------------------------------|--|
| Standard  | IEC / EN 60252                       |  |
| Rated capacitance $C_N$   | 3 ... 60 $\mu$ F                     |  |
| Tolerance   | $\pm 5\%$ , $\pm 6\%$ , $\pm 10\%$   |  |
| Rated voltage $U_N$   | 250 ... 450 Vac                      |  |
| Rated frequency $f_N$   | 50...60Hz                            |  |
| Life expectancy   | 10.000 h (class B)                   |  |
| <b>Maximum ratings</b>  |                                      |  |
| Maximum permissible voltage $U_{max}$                           | 1,1 x $U_N$ ( $U_N$ = Rated voltage) |  |
| Maximum permissible current $I_{max}$                           | 1,3 x $I_N$ ( $I_N$ = Rated current) |  |
| <b>Test data</b>  |                                      |  |
| AC test voltage terminal to terminal $U_{TT}$                   | 2 x $U_N$ , 60s.                     |  |
| Insulation voltage terminals to case                            | 2000 Vac, 60s.                       |  |
| Insulation resistance $R_{is}$ or time constant $\tau$ at 20 °C | 3000 s                               |  |
| Rel. Humidity $\leq 65$ °C (minimum value)                      |                                      |  |
| Dissipation factor $\tan\delta$ at 20 °C                        | $\leq 1,0 \times 10^{-3}$ (120 Hz)   |  |
| Maximum rate of voltage rise $du/dt_{max}$                      | 10 V/ $\mu$ s                        |  |

**Technical data (cont`d)**

**Climatic data**

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Climatic category                  | 25/085/21 (according to IEC 60068-1) |
| Lower category $T_{min}$           | -25 °C                               |
| Upper category $T_{max}$           | +85 °C                               |
| Damp heat test $t_{test}$          | 21 days                              |
| Permitted capacitance $\Delta C/C$ | $\leq 3 \%$                          |

**Approved marks**



UL 810 #  
10000 AFC



EN 60252\*

# Currently available in Icotron

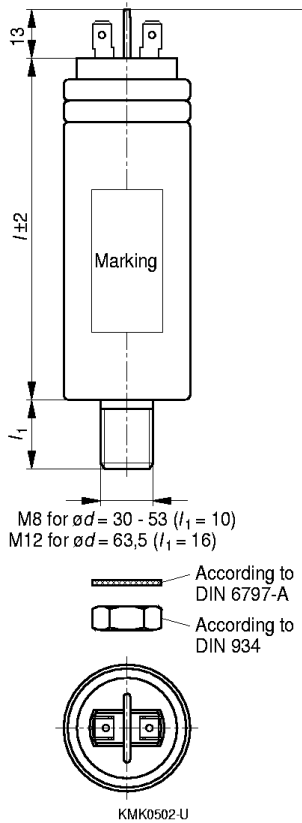
\* VDE approval only for 400 and 450V.

*Note :*

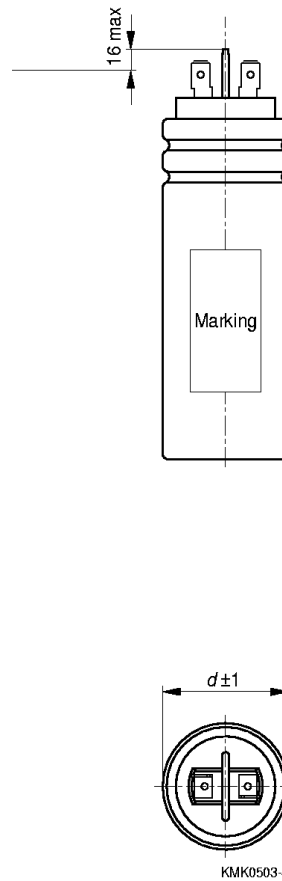
- 1) It should be noted that presence of harmonics produces over voltage & over current on capacitors. Resonance may cause serious damage to installation if a significant level of total harmonic distortion level exists for voltage or current. In such cases, series reactors must be considered.
- 2) Operating temperature class: in accordance with the reference standards, these temperatures are those measured on the surface on the capacitor.

Dimensional drawings

B32332 Series



B32330 Series



**Ordering codes and packing units**

| U <sub>N</sub><br>[Vac] | C <sub>N</sub><br>[μF] | Max. dimensions<br>d x l [mm] | Ordering code<br>B3233* | Packing units |
|-------------------------|------------------------|-------------------------------|-------------------------|---------------|
| 250                     | 4                      | 30 x 68                       | -B1405-+0 <sup>**</sup> | 112           |
|                         | 5                      | 30 x 68                       | -B1505-+0 <sup>**</sup> | 112           |
|                         | 6                      | 30 x 68                       | -B1605-+0 <sup>**</sup> | 112           |
|                         | 7                      | 30 x 68                       | -B1705-+0 <sup>**</sup> | 112           |
|                         | 8                      | 30 x 68                       | -B1805-+0 <sup>**</sup> | 112           |
|                         | 10                     | 30 x 68                       | -B1106-+0 <sup>**</sup> | 112           |
|                         | 12                     | 30 x 68                       | -B1126-+0 <sup>**</sup> | 112           |
|                         | 15                     | 35 x 68                       | -B1156-+0 <sup>**</sup> | 84            |
|                         | 20                     | 35 x 68                       | -B1206-+0 <sup>**</sup> | 84            |
|                         | 25                     | 35 x 78                       | -B1256-+0 <sup>**</sup> | 84            |
|                         | 30                     | 40 x 78                       | -B1306-+0 <sup>**</sup> | 45            |
|                         | 35                     | 40 x 78                       | -B1356-+0 <sup>**</sup> | 45            |
|                         | 40                     | 40 x 78                       | -B1406-+0 <sup>**</sup> | 45            |
|                         | 45                     | 40 x 78                       | -B1456-+0 <sup>**</sup> | 45            |
|                         | 50                     | 40 x 103                      | -B1506-+0 <sup>**</sup> | 45            |
|                         | 55                     | 40 x 103                      | -B1556-+0 <sup>**</sup> | 45            |
| 60                      | 40 x 103               | -B1606-+0 <sup>**</sup>       | 45                      |               |
| 400                     | 4                      | 30 x 68                       | B4405-+0 <sup>**</sup>  | 112           |
|                         | 5                      | 30 x 68                       | -B4505-+0 <sup>**</sup> | 112           |
|                         | 6                      | 30 x 68                       | -B4605-+0 <sup>**</sup> | 112           |
|                         | 7                      | 30 x 78                       | -B4705-+0 <sup>**</sup> | 112           |
|                         | 8                      | 30 x 78                       | -B4805-+0 <sup>**</sup> | 112           |
|                         | 10                     | 30 x 78                       | -B4106-+0 <sup>**</sup> | 112           |
|                         | 12                     | 35 x 78                       | -B4126-+0 <sup>**</sup> | 84            |
|                         | 15                     | 40 x 78                       | -B4156-+0 <sup>**</sup> | 45            |
|                         | 20                     | 40 x 78                       | -B4206-+0 <sup>**</sup> | 45            |
|                         | 25                     | 40 x 103                      | -B4256-+0 <sup>**</sup> | 45            |
|                         | 30                     | 40 x 103                      | -B4306-+0 <sup>**</sup> | 45            |

| U <sub>N</sub><br>[Vac] | C <sub>N</sub><br>[μF] | Max. dimensions<br>d x l [mm] | Ordering code<br>B3233* | Packing units |
|-------------------------|------------------------|-------------------------------|-------------------------|---------------|
| 400 (cont.)             | 35                     | 45 x 103                      | -B4356-+0**             | 45            |
|                         | 40                     | 50 x 103                      | -B4406-+0**             | 32            |
|                         | 45                     | 50 x 103                      | -B4456-+0**             | 32            |
|                         | 50                     | 53 x 103                      | -B4506-+0**             | 32            |
|                         | 60                     | 53 x 130                      | -B4606-+0**             | 32            |
| 450                     | 3                      | 30 x 68                       | -B6305-+0**             | 112           |
|                         | 4                      | 30 X 68                       | -B6405-+0**             | 112           |
|                         | 5                      | 30 x 78                       | -B6505-+0**             | 112           |
|                         | 6                      | 30 x 78                       | -B6605-+0**             | 112           |
|                         | 7                      | 30 x 78                       | B6705-+0**              | 112           |
|                         | 8                      | 35 x 78                       | -B6805-+0**             | 84            |
|                         | 10                     | 40 x 78                       | -B6106-+0**             | 45            |
|                         | 12                     | 40 x 78                       | -B6126-+0**             | 45            |
|                         | 15                     | 40 x 103                      | -B6156-+0**             | 45            |
|                         | 20                     | 40 x 103                      | -B6206-+0**             | 45            |
|                         | 25                     | 45 x 103                      | -B6256-+0**             | 45            |
|                         | 30                     | 50 x 103                      | -B6306-+0**             | 32            |
|                         | 35                     | 50 x 103                      | -B6356-+0**             | 32            |
|                         | 40                     | 53 x 103                      | -B6406-+0**             | 32            |
|                         | 45                     | 53 x 140                      | -B6456-+0**             | 32            |
|                         | 50                     | 53 x 140                      | -B6506-+0**             | 32            |
|                         | 55                     | 63.5 x 140                    | -B6556-+0**             | 28            |
| 60                      | 63.5 x 140             | -B6606-+0**                   | 28                      |               |

**Notes for ordering code:**

1. Replace \* by : 0 - single tab fast-on.  
2 - double tab fast-on.
2. For capacitance tolerance replace + by : J - ±5%, E - ±6%, K - ±10%
3. Replace \*\* by : 50 - aluminum can  
70 - aluminum can with  
M 8 fixing threaded bolt for ≤ φ 53mm.  
M 12 fixing threaded bolt for φ 63.5mm.

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