

Ordering code: OBIC 112-100.0 cv term block (K)
Applications: AC/DC capacitor for general use in power electronics also for nonsinusoidal voltages and currents
Standard: acc. to IEC 61071:2007

Characteristics

| | | |
|-------------------------------|---------------------------|----------------------|
| Rated capacitance | C_N | 100 μF ±10% |
| Rated a.c. voltage | U_{N AC} | 680 V a.c. |
| Rated d.c. voltage | U_{N DC} | 1120 V d.c. |
| Max. rms voltage (sinusoidal) | U_{rms} | 480 V |
| Non-recurrent surge voltage | u_s | 1680 V |
| Rated energy | W_N | 62.7 Ws |
| Maximum current | I_{max} | 43 A |
| Maximum peak current | î | 1.8 kA |
| Maximum surge current | I_s | 5.5 kA |
| Series resistance | R_s | 1.3 mΩ |
| dielectric dissipation factor | tanδ_o | 2 x 10 ⁻⁴ |
| insulation strength | C x R_{is} | 5000 s |
| Self inductance | L_e | 110 nH |

thermal characteristics

| | | |
|-------------------------------|----------------------------|-------------|
| Lowest operating temperature | Θ_{min} | -40 °C |
| Maximum operating temperature | Θ_{max} | 85 °C |
| storing temperature | Θ_{storage} | -40..+85 °C |
| thermal resistance | R_{th} | 4.2 K/W |

test parameters

| | | |
|--------------------------------------|-----------------------|---------------|
| test voltage between terminals | U_{TT} | 1680 V DC/10s |
| A.C. voltage test terminal/container | U_{TC} | 3000 V AC/10s |

failure rate

| | |
|-------------------------|----------|
| reference service life | 100 FIT* |
| at Θ _{hotspot} | 100000 h |
| | ≤70 °C |

* See FIT-RATE diagram on pg.4

Dimensions

| | | | |
|-------------------------|------------------------------------|--------------|----|
| Rated diameter | D₁ | 100 (±1) | mm |
| Maximum diameter | D₂ | 104.5 (±0.5) | mm |
| Length of the case | L₁ | 105 (±2) | mm |
| Length of the terminals | L₂ | 35 (+5) | mm |
| distance termials | a | 44 (±1) | mm |
| distance termials | b | 42 (±1) | mm |
| Terminal | | RK 43A | mm |
| base mounting stud | G_BxL_B | M12x16 (+1) | mm |
| Clearance in air | L | 16 | mm |
| Creepage distance | K | 16 | mm |

Approx weight 0.9 kg

Mechanical characteristics

| | |
|--------------|--|
| Dielectric | MKP- metallized polypropylene capacitor, self-healing, metallic case |
| Construction | aluminium can, folded edge |
| Protection | overpressure disconnecter |
| Terminals | terminal block, 2x 25mm ² per terminal |
| Impregnant | liquid impregnants, no PCB |
| Fire load | 36MJ |

outline drawing

