EPCOS

Lighting

Construction

- Dielectric: polypropylene film
- Aluminium can
- Soft polyurethan resin
- Internal dischage resistor
- Overpressure disconnector

Features

- Self-healing properties
- Low dissipation factor
- High insulation resisitance

Typical applications

For general sine wave applications, mainly as series and parallel connection lighting capacitors.

Terminals

- Single tag 2,8 mm ; Push-in terminals

Mounting parts

- Metal stud (max. torque = 5 Nm)

Technical data and specifications

Standard	IEC /EN 61048/61049
Rated capacitance C_N	3 .. 60 µF
Tolerance	± 5%, ±10%
Rated voltage U_N	250 ... 450 Vac
Rated frequency f_N	50...60Hz
Life expectance	10 years
Maximum ratings	
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)
Test data	
AC test voltage terminal to terminal U_{TT}	2,0 x U_N , 60 s
Insulation voltage terminals to case	2000 Vac, 60 s.
Insulation resistance R_{is} or time constant τ at 20 °C Rel. Humidity ≤ 65 °C (minimum value)	3000 s
Dissipation factor tanδ at 20 °C	≤ 1,0 x10^{-3} (120 Hz)
Maximum rate of voltage rise du/dt_{max}	10 V/µs

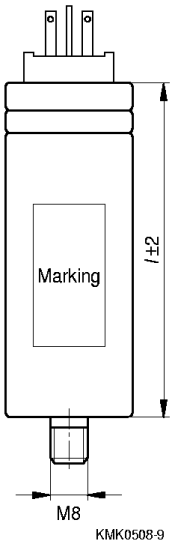
Technical data (cont`d)

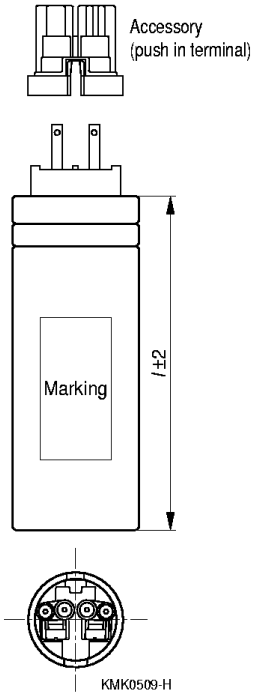
Climatic data	
Climatic category	25/085/21 in accordance with IEC 60068-1
Lower category T_{min}	-25 °C
Upper category T_{max}	+85 °C
Damp heat test t_{test}	21 days
Permitted capacitance $\Delta C/C$	$\leq$ 3 %

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 siginificant 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





Ordering codes and packing units

U_N Vac	C_N µF	Max. dimensions *d* x *l* (mm)	Ordering code B32436-	Packing unit (pcs.)
250	2	30 x 68	A1205-+0*0	112
	3	30 x 68	A1305-+0*0	112
	4	30 x 68	A1405-+0*0	112
	5	30 x 68	A1505-+0*0	112
	7	30 x 68	A1705-+0*0	112
	8	30 x 68	A1805-+0*0	112
	10	35 x 68	A1106-+0*0	84
	12	35 x 68	A1126-+0*0	84
	15	35 x 78	A1156-+0*0	84
	16	35 x 78	A1166-+0*0	84
	20	35 x 78	A1206-+0*0	84
	25	40 x 78	A1256-+0*0	45
	30	40 x 78	A1306-+0*0	45
	35	40 x 103	A1356-+0*0	45
	40	40 x 103	A1406-+0*0	45
	45	40 x 103	A1456-+0*0	45
	50	45 x 103	A1506-+0*0	45
	60	45 x 103	A1606-+0*0	45
450	2	30 X 68	A6205-+0*0	112
	3	30 x 68	A6305-+0*0	112
	4	30 X 68	A6405-+0*0	112
	5	30 x 78	A6505-+0*0	112
	6	30 x 78	A6605-+0*0	112
	8	35 x 78	A6805-+0*0	84
	10	35 x 78	A6106-+0*0	84

Notes for ordering code:

1) Replace * for terminals
   - 3- Aluminum can with push-in
   - 4- Aluminum can with push-in terminals and bolt
   - 5- Aluminum can with solder tag
   - 6- Aluminum can solder tag without resistor
   - 7- Aluminum can solder tag with bolt
   - 8- Aluminium can solder tag, bolt, and without resistor

   M 8 fixing threaded bolt for ≤ ϕ 53mm.

Note- Push-in terminal available only upto 30µf in 250 V.

2) Replace + for capacitance tolerance: - J- ± 5%, K- ± 10%