

**Ordering code:** E62.F81-333D10  
**Applications:** MKP-1 AC / DC capacitor for general use in power electronics also for nonsinusoidal voltages and currents  
**Standard:** acc. to IEC 61071:2007  
 UL 810 - protected 10,000 AFC +85°C  
 CSA C22.2 No. 190 - tested up to ambient 46°C

**Approval mark:****Characteristics**

Rated capacitance	$C_N$	33 $\mu\text{F}$ $\pm 10\%$
Rated a.c. voltage	$U_{NAC}$	500 V a.c.
Rated d.c. voltage	$U_{NDC}$	840 V d.c.
Max. rms voltage (sinusoidal)	$U_{rms}$	360 V
Non-recurrent surge voltage	$U_s$	1260 V
Rated energy	$E_N$	11.6 Ws
Maximum current	$I_{max}$	16 A
Maximum peak current	$\hat{I}$	0.45 kA
Maximum surge current	$I_s$	1.35 kA
Series resistance	$R_s$	3.7 m $\Omega$
Dielectric dissipation factor	$\tan\delta_o$	$2 \times 10^{-4}$
Self discharge time constant	$C \times R_{1s}$	>25000 s
Self inductance	$L_e$	80 nH

**Thermal characteristics**

Lowest operating temperature	$\Theta_{min}$	-40 °C
Maximum operating temperature	$\Theta_{max}$	85 °C
Storage temperature	$\Theta_{storage}$	-40..+85 °C
Thermal resistance	$R_{th}$	12.2 K/W

**Routine test voltages**

Voltage test between terminals	$U_{TT}$	1260 V DC/10s
Voltage test terminals to case	$U_{TC}$	3000 V AC/10s

**Statistical lifetime**

Failure rate		>200000 h
		<100 FIT*
		$\leq 70$ °C

at  $\Theta_{hotspot}$ 

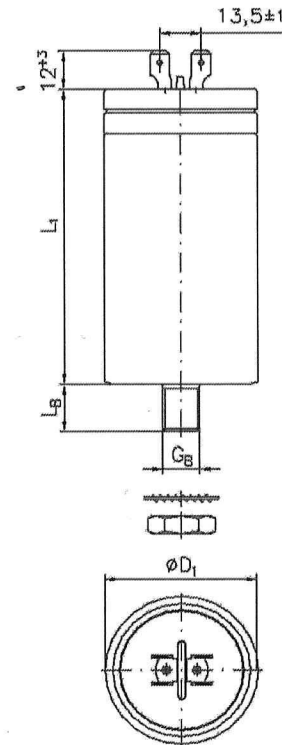
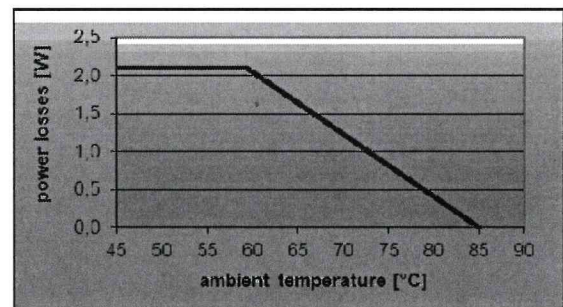
\* See FIT-RATE diagram on p.4

**Dimensions**

Rated diameter	$D_1$	45 ( $\pm 0.5$ ) mm
Length of the case	$L_1$	81 ( $\pm 2.5$ ) mm
Length of the terminals	$L_2$	12 (+3) mm
Distance btw. terminals	$a$	13.5 ( $\pm 1$ ) mm
Terminal		AMP 6.3 x 0.8 mm
Base mounting stud	$G_B \times L_B$	M8x10 (+1) mm
Clearance in air	$L$	6.5 mm
Creepage distance	$K$	10 mm

**Approx. weight** 0.14 kg**Mechanical characteristics**

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	protected, BAM™ (overpressure break action mechanism)
Terminals	dual tab connectors 6.3 x 0.8 mm / plastic lid
Impregnant	liquid impregnant, no PCB
Fire load	5.6 MJ

**Outline drawing****Permitted power losses during continuous operation**

## Beschreibung

PE\_33 $\mu$ F\_840DC\_500AC\_45x81\_D1\_oil\_BAM[Datenblatt herunterladen](#)

## Teilenummer

E62.F81-333D10

## Kapazität

33  $\mu$ F

## Spannung (rms)

360V

## Spannung (AC)

500 V<sub>ac</sub>

## Spannung (DC)

840 V<sub>dc</sub>I<sub>max</sub>

16 A

Höhe (L<sub>1</sub>)

81mm

Durchmesser (D<sub>1</sub>)

45mm

## Füllmittel

castor oil

## Sicherungsart

BAM

## Eigeninduktivität

80 nH

