

Ordering code: PAM 170-40.0 cv5 (K)

Applications: AC/DC capacitor for general use in power electronics

also for nonsinusoidal voltages and currents

Standard: acc. to IEC 61071:2007

Characteristics

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Rated capacitance	C _N	40 μF ±10%
Rated d.c. voltage	U _{N DC}	2800 V d.c.
Rated a.c. voltage	U _{N AC}	1700 V a.c.
Max. rms voltage (sinusoidal)	U_{rms}	1200 V
Non-recurrent surge voltage	u_s	4200 V
Rated energy	W_N	156.8 Ws
Maximum current	I _{max}	80 A
Maximum peak current	Î	3.9 kA
Maximum surge current	I _s	11.7 kA
Series resistance	R_s	$0.65~\mathrm{m}\Omega$
dielectric dissipation factor	$tan\delta_{o}$	2 x10 ⁻⁴
insulation strength	C x R _{is}	5000 s
Self inductance	L_e	160 nH
thermal characteristics		
lower category temperature	Θ_{min}	-25 ℃
upper category temperature	Θ_{max}	85 °C
thermal resistance	R _{th}	2.2 K/W
storing temperature	Θ _{storage}	-40+85 ℃
• .	2.0.490	

test parameters

test voltage between terminals U_{TT} 4200 V DC/10s A.C. voltage test terminals/case U_{TC} 5000 V AC/10s

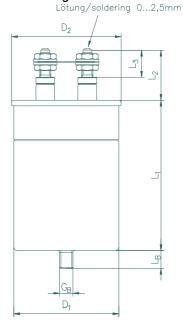
Statistical lifetime	>200000 h
Failure rate	< 100 FIT*
at $\Theta_{hotspot}$	≤70 °C

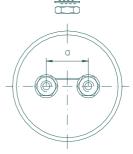
^{*} See FIT-RATE diagram on pg.4

Dimensions

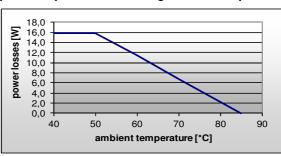
Dilliciisions			
Rated diameter	D_1	116 (±1)	mm
Maximum diameter	D_2	120 (±0.5)	mm
Length of the case	L ₁	176 (±2)	mm
Length of the terminals	L_2	25 (+5)	mm
Length of the terminals	L_4	-	mm
distance termials	b	-	mm
Terminal		M10 x20 mm	
base mounting stud	G_BxL_B	M12x16 (+1)	mm
Clearance in air	L	17 mm	
Creepage distance	K	20 mm	
Approx weight		2 kg	

outline drawing





permitted power losses during continuous operation



Mechanical characteristics

Dielectric metallized polypropylene capacitor, selfhealing
Construction aluminium can, flanged copper (folded edge)

Protection without internal fuse, to be used only in uncritical environment

Terminals Screw terminals on ceramic insulators M10

Impregnant no liquid impregnants, filled with solidified PUR resin, non PCB

Fire load 80MJ

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