



ALUMINIUM CAN CAPACITORS  
 Safety Device - FPU

**C9T SERIES**  
 RoHS COMPLIANT

POWER FACTOR CORRECTION  
 CAPACITORS

**GENERAL TECHNICAL DATA**

Reference Standards	IEC 60831-1/2 UL810 compliant
Dielectric	Polypropylene film Non-inductive type winding
Climatic category	-25/D - IEC 60831-1 <ul style="list-style-type: none"> <li>• Maximum: 55°C</li> <li>• Highest mean over any period of 24 hours: 45°C</li> <li>• Highest mean over any period of 1 year: 35°C</li> </ul>
Maximum hot spot temperature	+70°C
Endurance Test IEC 60831-2	IEC 60831-2 clause 17.1-17.2

**ELECTRICAL CHARACTERISTICS**

Rated voltage	$U_N =$ (see table) $V_{rms}$
Over voltage	IEC 60831-1 clause 20: $1,10 * U_N - 8$ hours in every 24 hours $1,15 * U_N - 30$ minutes in every 24 hours $1,20 * U_N - 5$ minutes in the lifetime $1,30 * U_N - 1$ minutes in the lifetime
Capacitance tolerance	-5% +10% (X)

**MECHANICAL CHARACTERISTIC**

Maximum Torque:	6 [N*m] for Terminal screw 12 [N*m] for M12 Bolt
Installation	Whatever position
Tinned brass deck with self extinguish UL94 V0 plastic cover	

**LIFE EXPECTANCY**

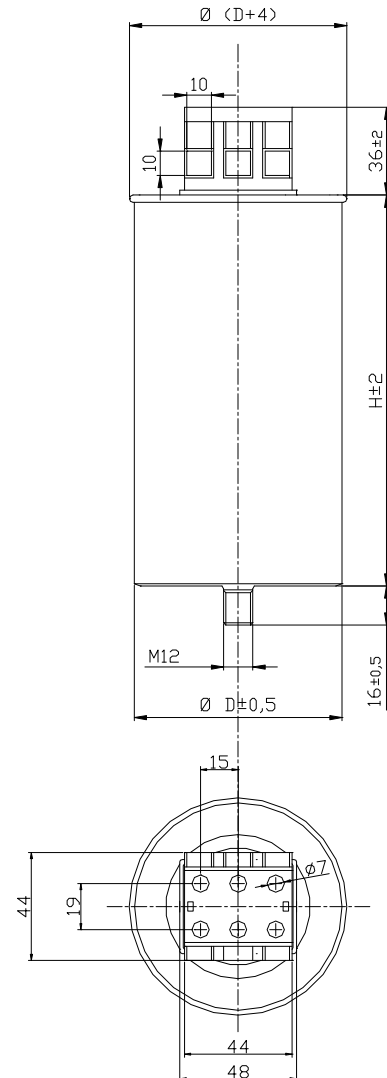
Life expectancy	100.000 hours @ $U_{rms}$ with $T_{hs} \leq 70^\circ C$
Capacitance drop at end of life	- 5% (typical)
Failure rate IEC 61709	$300 * 10^{-9}$ components/hours

**TEST METHODS**

Test voltage term to term ( $U_{tt}$ )	$2,15 * U_{rms}$ for 2s at 25°C
Test voltage term to case ( $U_{tc}$ )	3600V~ 50Hz for 2 sec
Relative humidity	Annual average $\leq 80\%$ at 24°C On 30 days/year permanently 100%. on other days occasionally 90%. Dewing not admitted
Capacitance deviation in temperature range (-40...+50°C)	$\pm 1.5\%$ max on capacitance value at 20°C
Damp Heat	IEC 60068-2-78
Change of temperature	IEC 60068-2-14
Vibration strength	IEC 60068-2-6

**NOTICE:**

Care should be taken to ensure that there still is electrical clearance of 15 mm between terminations and other live or earthed parts above the capacitor, in case of safety device activation



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Part Number	C * 3	Fn	Qn	Urms	dV/dt	Irms (*)	Case	
	μF	Hz	kVAr	Vac	V/μs	A	Ø	H
C9TS5MD5311AARX	31,1	50	5,0	415	30	9	75	160
C9TS5MD5460AARX	46,0	50	7,5	415	30	14	75	160
C9TS5MD5615AARX	61,5	50	10,0	415	30	18	85	160
C9TS5MD5770AARX	77,0	50	12,5	415	30	23	75	230
C9TS5MD5920AARX	92,2	50	15,0	415	30	27	85	230
C9TS5MD6108AARX	108,0	50	17,5	415	30	32	75	280
C9TS5MD6123AARX	123,0	50	20,0	415	30	36	75	280
C9TS5MD6154AARX	154,0	50	25,0	415	30	45	85	280
C9TS6MD5274AARX	27,4	50	5,0	440	30	9	75	160
C9TS6MD5411AARX	41,1	50	7,5	440	30	13	75	160
C9TS6MD5548AARX	54,8	50	10	440	30	17	85	160
C9TS6MD5685AARX	68,5	50	12,5	440	30	21	75	230
C9TS6MD5830AARX	83,0	50	15,0	440	30	26	85	230
C9TS6MD5960AARX	96,0	50	17,5	440	30	30	75	280
C9TS6MD6110AARX	110,0	50	20,0	440	30	34	75	280
C9TS6MD6137AARX	137,0	50	25,0	440	30	43	85	280

(\*) Max admissible RMS current. This ≤ 70°C.

## MARKING

Typical data on marking

CEI EN 60831/1-2		Via S. Lorenzo, 19 40037 Sasso Marconi (BO) ITALY Tel (+39) 051 939.111 http://www.kemet.com
ATTENZIONE!! PER ACCEDERE, DISINSERIRE, ATTENDERE 3 MINUTI METTERE I TERMINALI IN CORTO CIRCUITO E A TERRA		ATTENTION!! TO OPEN SWITCH OFF, WAIT 3 MINUTES PLACE TERMINALS ON SHORT CIRCUIT AND ON GROUND
ATTENTION!! AVANT D'OUVRIR ATTENDEZ 3 MINUTES, METTEZ LE BORNES EN COURT-CIRCUIT AT A LA TERRE		ACHTUNG!! VOR DEM OFFNEN, NETZ AUSSCHALTEN 3 MINUTEN WARTEN KURZSCHLIESSEN UND BERDEN
<b>THREE PHASE SELF HEALING CAPACITOR</b>		
PART NUMBER	<input type="text" value="C9TS6MD6137AARX"/>	BATCH NR./YEAR <input type="text"/>
REACTIVE POWER Qn	<input type="text" value="25"/> kvar	RATED CURRENT In <input type="text" value="43"/> A
RATED VOLTAGE Urms	<input type="text" value="440"/> V	INSULATING LEVEL <input type="text" value="3/15"/> KV
NOMINAL FREQUENCY Fn	<input type="text" value="50"/> Hz	CONNECTIONS <input type="text" value="DELTA"/>
TEMPERATURE CLASS : -25/D - INDOOR USE ONLY OVERPRESSURE SAFETY DEVICE - NO PCBs		

### Prototype Sample Disclaimer

The Customer acknowledges the following limitations of the prototype samples:

- (1) prototype samples are manufactured from preliminary designs and manufacturing processes. may not represent final designs. have not been released for commercial use and are not subject to the same quality control procedures applicable to released products;
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