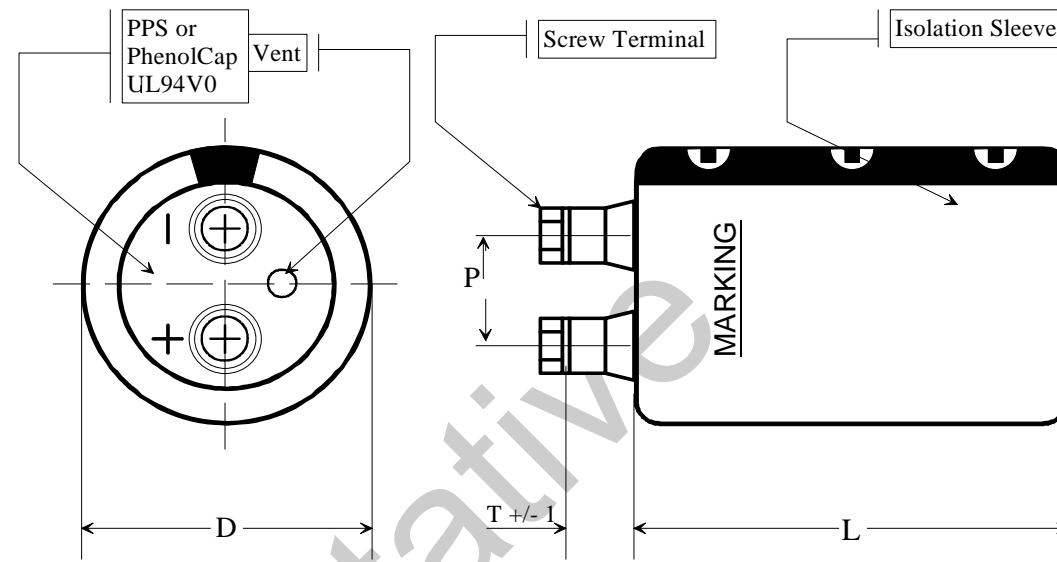


HITACHI AIC

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATION

I.) Series: PH700V



II.) General Specifications:

Item:	Value:	Condition:
Capacitance Range	: 820 - 2.700 μ F	other values on request
Rated Voltage RV	: 700VDC	at 85°C
Surge Voltage	: 750VDC	30sec / 6 Minutes
Tan δ (Dissipation Factor)	: 0,30 max	at 120Hz / 20°C
Typ. Leakage Current	: 1,0 mA	after 5 Minutes at 25°C
Max. Leakage Current	: 3,0 mA	after 5 Minutes at 25°C
Life time	: 6.000 h	at 85°C, I _R , RV
Failure rate	: 0,5 FIT	during useful life

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III.) Individual Specifications:

Capacitance [μ F]	Ripple Current* at 40°C,10kHz [A RMS]	Ripple Current at 85°C,120Hz I_R , [A RMS]	D x L [mm]	P [mm]	T [mm]	Product Code
820	12,6	4,5	64 x 115	28,6	4,5 – 5,5	PH700V821 □ D115
1 000	15,4	5,5	64 x 130	28,6	4,5 – 5,5	PH700V102 □ D130
1 200	18,5	6,6	77 x 115	32,0	4,5 – 5,0	PH700V122 □ E115
1 500	21,0	7,5	77 x 130	32,0	4,5 – 5,0	PH700V152 □ E130
1 800	25,2	9,0	77 x 155	32,0	4,5 – 5,0	PH700V182 □ E155
2 700	32,8	11,7	90 x 157	32,0	4,0 – 5,0	PH700V272 □ F157

*without cooling

□ Fixing symbol code: **B**: Bolt M12; **N**: No double sleeve (PBT-safety-holder or press ring); **Y**: 3 Stoppers Bracket

IV.) Ripple Current Multiplier depending on ambient Temperature

Temperature (°C):	40	60	85
Multiplier:	1,65	1,45	1,0

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ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATION

V.) Ripple Current Multiplier depending on Frequency :

Frequency (Hz):	50/60	120	300	1k	> 10k
Multiplier:	0,7	1,0	1,2	1,5	1,7

VI.) Ripple Current Multiplier depending on Forced Cooling :

Wind speed (m/s):	v < 1,0	v >= 1,0
Multiplier:	1,0	1,1

VII.) Useful Life Criteria:

Capacitance:	$\Delta C / C : < 15\%$ (C = initial value)
Dissipation Factor Tan δ :	< 175% of initial value
Leakage Current:	< than specified value

VIII.) Field Failure Rate (FIT = failure in time = 10^{-9} failures/hour)

The field failure rate is 0,5 FIT. That means if 20.000 capacitors are permanently used in the field one capacitor within a period of 10 years will fail.

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