



DUCATI energia

CAPACITOR for
POWER ELECTRONIC
- GENERAL PURPOSE APPLICATIONS -

GP84 Cn = 400µF Urms= 330V

Part. Number: **416.84.3998**

GP 84

AC / DC - Power electronic Capacitors

CHARACTERISTICS

Rated Capacitance (Cn)	400	µF
Capacitance Tolerance	±10%	
Rated RMS Voltage (Urms)	330	V
Max. AC Voltage (Un ac)	470	V
Rated DC Voltage (Un)	600	V
Maximum Current (Imax) @ θ MAX	75	A
Self-inductance (LESR)	< 300	nH
Equivalent series resistance (RESR)	< 8	mΩ
Typical tan d (10 ⁻⁴)	7,5	(Measure @ 50Hz)
Thermal resistance natural cooling (RTHC)	1,1	°C/W

Filler material: Polyurethane Resin
PPM film Dielectric - self healing technology.

Over pressure safety device
Aluminium case, M12 fixing stud.

Weight	≤ 1500	g
Dimension Ø x H	75 x 267	mm

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1150	V
Maximum peak current (IPK)	113	A
Max. Voltage raise of rise (dV/dt)	40	V/µs
Maximum surge current (Is)	18	kA
Maximum Fault current - UL810	10.000	A
Max .Fixing Torque for terminals (*)	6	Nm
Max .Fixing Torque for M12 stud	10	Nm

(*) To avoid breaking, complete the tightening of the nuts using two wrenches.

TEST DATA

DC Test voltage terminal to terminal	1,5xUnx 10s	Vdc
AC test voltage terminal to case	3kV x 10s	Vac 50Hz

CLIMATIC CATEGORY

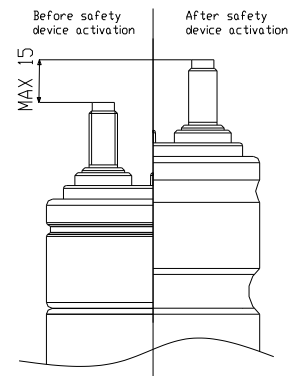
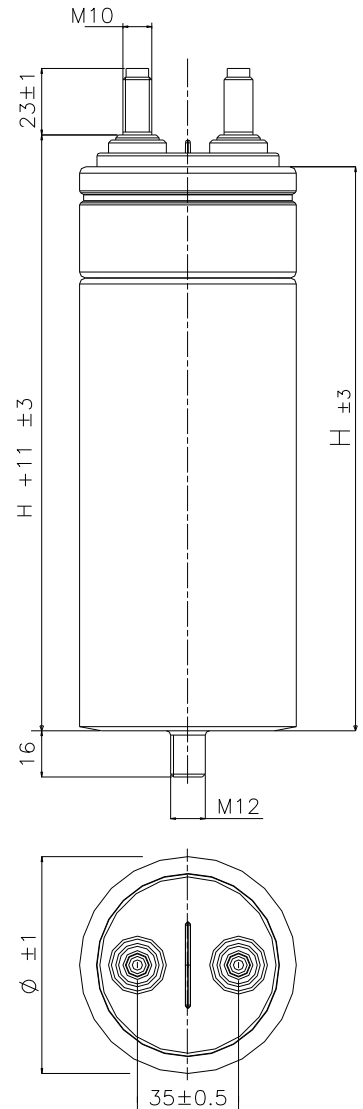
Min.operating temperature (θ MIN)	-25	°C
Max. operating temperature (θ MAX)	+70	°C
Storage temperature	-40 +85	°C
Altitude maximum	2000m	a.s.l.

Failure quota	300/10 ⁹	
Expected life (Ln)	100.000 h @ 330Vac / 50Hz	

STANDARDS

EN 61071-1/2
UL - CSA approval

**Total elongation is about 15 mm after the overpressure disconnecter release.
Don't use rigid connections.**



Release	Date	Description	Technician
-	24/01/12	First issue: equivalent to 416843994, but with new plastic cover	A. G.