



DUCATI energia

**CAPACITOR for
POWER ELECTRONIC**
- GENERAL PURPOSE APPLICATIONS -

GP84 Cn = 100µF Urms= 450V

Part. Number: 416.84.4527

GP 84

AC / DC - Power electronic Capacitors

CHARACTERISTICS

Rated Capacitance (Cn)	100	µF
Capacitance Tolerance	±5%	
Rated RMS Voltage (Urms)	450	V
Max. AC Voltage (Un ac)	630	V
Rated DC Voltage (Un dc)	825	V
Maximum Current (Imax) @ θ MAX	40	A
Self-inductance (LESR)	< 200	nH
Equivalent series resistance (RESR)	< 5	mΩ
Typical tan d (10 ⁻⁴)	6,0	(Measure @ 50Hz)
Dielectric losses	0,2	W/KVAr
Thermal resistance natural cooling (RTHC)	1,3	°C/W

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

Over pressure safety device
Aluminium case, M12 fixing stud.

Weight	≤ 900	g
Dimension Ø x H	75 x 180	mm

MAXIMUM RATINGS

Over voltage	1,1 Un	8hours/day
Non-recurrent surge voltage (Us)	1600	V
Maximum peak current (IPK)	2,9	kA
Max. Voltage raise of rise (dV/dt)	30	V/µs
Maximum surge current (Is)	7,4	kA
Maximum Fault current - UL810	10.000	A
Max .Fixing Torque for terminals (*)	6	Nm
Max .Fixing Torque for M12 stud	10	Nm

TEST DATA

AC Test voltage terminal to terminal	2,15xUrms 2s	V
AC test voltage terminal to case	3Kv x 10s	V - 50Hz

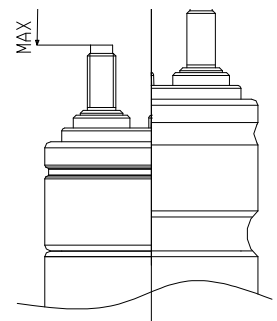
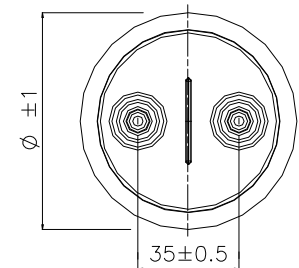
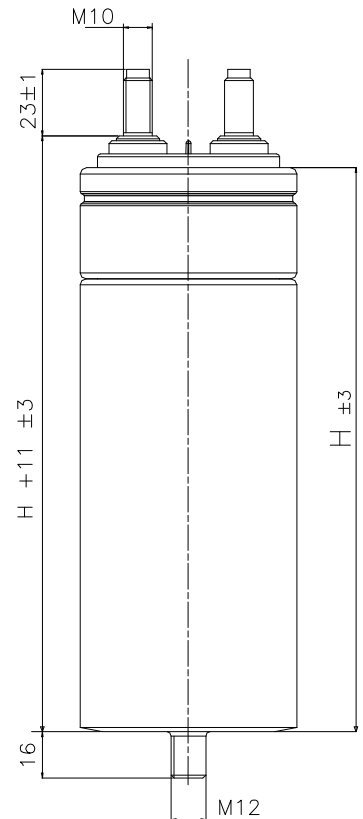
CLIMATIC CATEGORY

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

Failure quota	50/10 ⁹	
Expected life (Ln)	100.000 h @ URMS/ θHS=70°C	

STANDARDS

EN 61071-1/2 / UL - CSA approval No. E102953



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

Release	Date	Description	Technician
-	10/07/13	First issue	A. G.