

DUCATI energia	CAPACITOR for POWER ELECTRONIC	C = 400 $\mu$ F 330 Vac / 600Vdc
S.p.A		Part. Number: <b>416.74.7053</b>

### CHARACTERISTICS

Rated Capacitance	400	$\mu$ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	330	V
Rated DC Voltage (Un)	600	V
Max. Current (Imax) @ 50°C T <sub>amb</sub>	70	A
Self-inductance	< 300	nH
Equivalent series resistance (R <sub>ESR</sub> )	< 3.5	m $\Omega$
Typical tan d (10E-4)	8.0	(Measure @ 50Hz)
Thermal resistance natural cooling (R <sub>THN</sub> )	0.8	$^{\circ}$ C/W

Filler material	Polyurethane Resin, No PCB
Dielectric	PPM Film
Over pressure safety device, self healing technology	
Aluminium case, plastic cover – Indoor mounting, M12 Fixing Stud	
Weight	$\leq 1800$ g

### MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1150	V
Maximum peak current (I <sub>PK</sub> )	6.0	kA
Max. Voltage raise of rise (dV/dt)	15	V/ $\mu$ s
Maximum surge current (Is)	13.0	KA
Max .Fixing Torque for terminals*	6	Nm

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

### TEST DATA

AC Test voltage terminal to terminal	2.15xUrms	x2s
AC test voltage terminal to case	3.5kVx 50Hz	X10s

### CLIMATIC CATEGORY

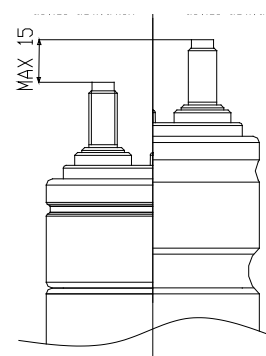
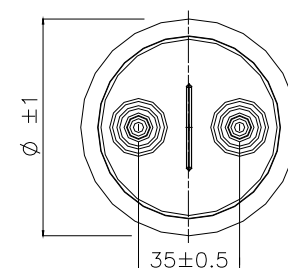
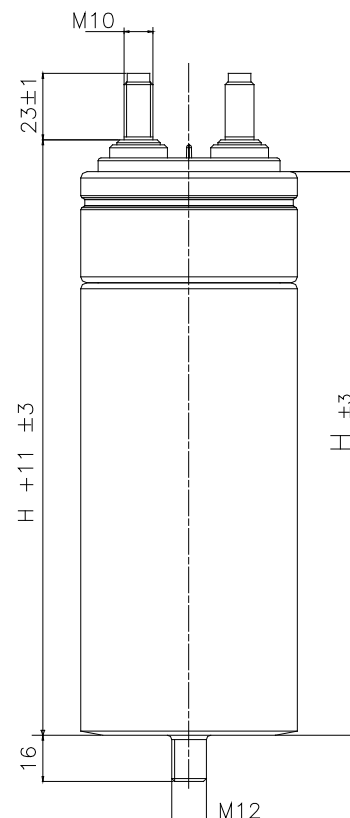
Min.operating temperature ( $\theta_{MIN}$ )	-40	$^{\circ}$ C
Max. operating temperature ( $\theta_{MAX}$ )	+70	$^{\circ}$ C
Storage temperature	-40 +85	$^{\circ}$ C
Altitude maximum	2000m	a.s.l.

Failure quota	300/10E9	
Expected life (Ln) – IEC 1071/ 2	75.000 h	@ 330Vac / 50Hz
Expected life (Ln) – IEC 1071/ 2	>100.000 h	@ 250Vac / 50Hz

### STANDARDS

According to: EN 61071-1/2

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



#### Dimension:

Ø = 85 mm

H = 280 mm

Release	Date	Description	Technician
-	06/03/12	First issue	A. G.
A	29/03/12	Deleted page 2	A. G.
B	30/03/12	Added Expected life @ 250V	A. G.