

DUCATI energia	CAPACITOR for POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	C = 150 $\mu$ F 330 Vac / 600 Vdc
S.p.A		Part. Number : <b>416.84.3490</b>

### CHARACTERISTICS

Rated Capacitance	150	$\mu$ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	330	V
Rated DC Voltage (Un)	600	V
Maximum Current (Imax) @ $\theta_{MAX}$	34	A
Self-inductance	< 170	nH
Equivalent series resistance (Rs)	< 3	m $\Omega$
Typical tan d (10E-4)	6,5	(Measure @ 50Hz)
Thermal resistance natural cooling (R <sub>THN</sub> )	1,8	$^{\circ}$ C/W

Filler material	Polyurethane Resin
Dielectric	PPM Film
Over pressure safety device	
Aluminium case	
Weight	$\leq 540$ G

### MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1150	V
Maximum peak current (I <sub>PK</sub> )	51	A
Max. Voltage raise of rise (dV/dt)	75	V/ $\mu$ s
Maximum surge current (Is)	13	kA

### TEST DATA

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

### CLIMATIC CATEGORY

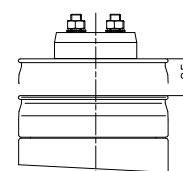
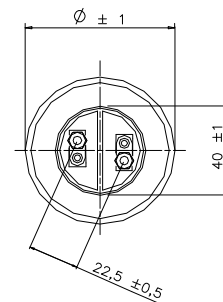
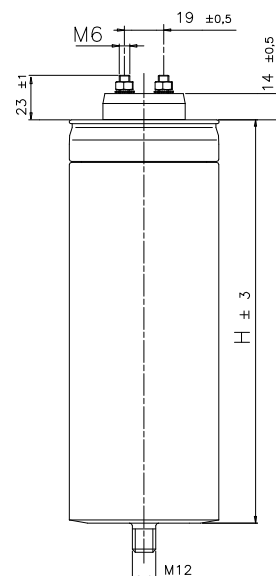
Min.operating temperature ( $\theta_{MIN}$ )	-25	$^{\circ}$ C
Max. operating temperature ( $\theta_{MAX}$ )	+70	$^{\circ}$ C
Storage temperature	-40 +85	$^{\circ}$ C
Altitude maximum	2000m	a.s.l.

Failure quota	300/10E9
Expected life (Ln)	100.000 h @ 330Vac / 50Hz

Humidity category	In accord. with DIN 40040	F
Insulating	In accord. with UL 810 / UL 840	
Vibration resistance	In accord. with EIA STAND. RS-186-7E	

### STANDARDS

EN 61071-1/2  
UL - CSA approval [File No. E192559]



Dimensioni con sistema antiscoppio attivato  
Dimension with overpressure device activated

Ø [mm]	H [mm]
65 ± 1	150 ± 3

Maximum Fixing Torque for M6 terminals*	3 [Nm]
Fixing Stud	M12

Total elongation is about 25 mm after the overpressure disconnecter release.  
Don't use rigid connections.

Release	Date	Description	Technician
-	21/10/09	First issue	A. G.