

DUCATI energia	CAPACITOR for POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	C = 70 μ F 450 Vac / 825 Vdc
S.p.A		Part. Number: 416.84.4310

CHARACTERISTICS

Rated Capacitance	70	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	450	V
Rated DC Voltage (Un)	825	V
Maximum Current (Imax) @ θ_{MAX}	28	A
Self-inductance	< 170	nH
Equivalent series resistance (RESR)	< 8	m Ω
Typical tan d (10E-4)	6,5	(Measure @ 50Hz)
Thermal resistance natural cooling (R _{THN})	1,8	$^{\circ}$ C/W

Filler material	Polyurethane Resin
Dielectric	PPM Film
Over pressure safety device	
Aluminium case	
Weight	≤ 540 g

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1600	V
Maximum peak current (I _{PK})	2.1	kA
Max. Voltage raise of rise (dV/dt)	30	V/ μ s
Maximum surge current (Is)	6,8	kA

TEST DATA

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

CLIMATIC CATEGORY

Min.operating temperature (θ_{MIN})	-25	$^{\circ}$ C
Max. operating temperature (θ_{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 @ 450Vac / 50Hz

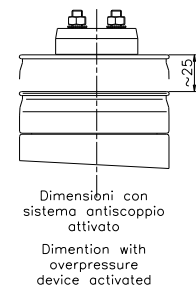
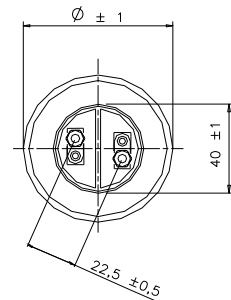
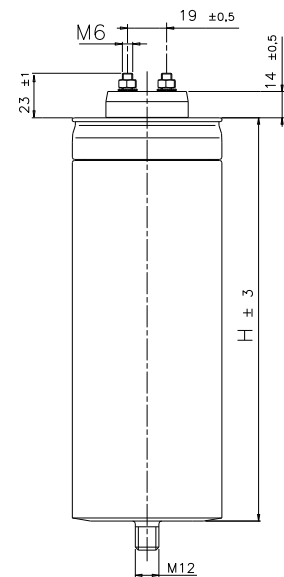
Humidity category	According to DIN 40040	F
Insulating	According to UL 810 / UL 840	
Vibration resistance	According to EIA STAND. RS-186-7E	

STANDARDS

IEC 61071-1/2
UL - CSA approval [File No. E102953]

Total elongation is about 25 mm after the overpressure disconnector release.

Don't use rigid connections.



Ø [mm]	H [mm]
65 ± 1	150 ± 3

Maximum Fixing Torque for M6 terminals	3 [Nm]
Maximum Fixing Torque for M12 Fixing Stud	10 [Nm]

Release	Date	Description	Technician
-	22/06/10	First issue	A. Govoni