

DUCATI energia	CAPACITOR for POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	C = 133 μ F 550 Vac / 940Vdc
S.p.A		Part. Number : 416.84.5727

CHARACTERISTICS

Rated Capacitance	133	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	550	V
Rated DC Voltage (Un)	940	V
Maximum RMS Current (Imax)	70	A
Self-inductance	< 210	nH
Equivalent series resistance (RESR)	< 2	m Ω
Typical tan d (10E-4)	6,5	(Measure @ 50Hz)
Thermal resistance natural cooling (R _{THN})	1.0	$^{\circ}$ C/W
Insulation res. (Ir) terminals to case	>2.0	G Ω (@ 500Vdc)

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	≤ 1150 g

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1800	V
Maximum peak current (I _{PK})	4.0	kA
Maximum surge current (Is)	7.2	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	2,15xUn x 2s	Vac
AC test voltage terminal to case	3.5kVx 10 s	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 @ 550Vac / 50Hz

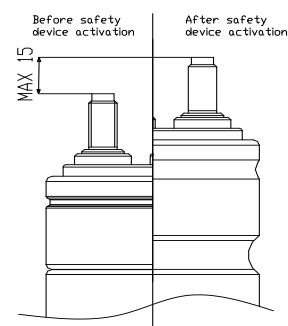
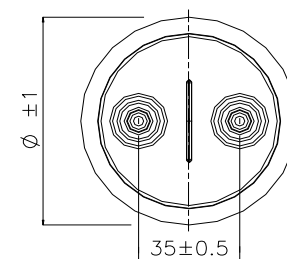
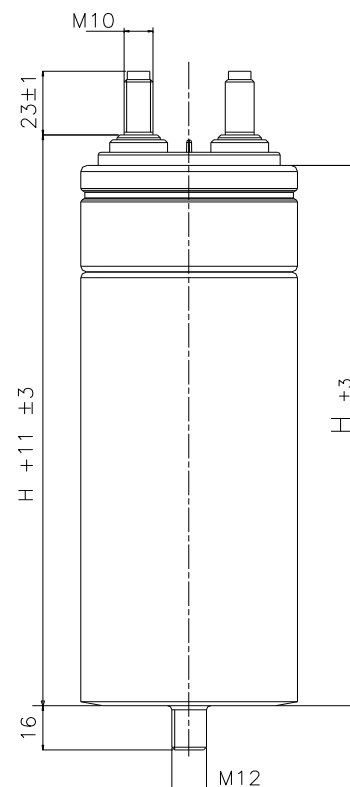
Humidity category	In accord. with DIN 40040
Insulating	In accord. with UL 810/ UL 840
Vibration resistance	In accord. with EIA STAND. RS-186-7E

STANDARDS

EN 61071-1/2
UL - CSA approval (File nr. E102953)

Note :

For Safety device activation, H can be increased of 15mm max.
DON'T USE RIGID CONNECTION.



Dimension:

$\varnothing = 85$ mm
H = 210 mm

Release	Date	Description	Technician
-	28/06/10	First issue (preliminary code: 216840154)	A. G.
A	05/07/10	Added Insulation resistance (Ir) value.	A. G.
B	17/10/13	Added UL File number	A. G.