

DUCATI energia	CAPACITOR for	C = 50 μ F 550 Vac / 940 Vdc
S.p.A	POWER ELECTRONIC	Part. Number : 416.84.5264
	- GENERAL PURPOSE APPLICATIONS -	

CHARACTERISTICS

Rated Capacitance	50	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	550	V
Rated DC Voltage (Un)	940	V
Maximum Current (Imax) @ θ_{MAX}	24	A
Self-inductance	< 160	nH
Equivalent series resistance (RESR)	< 8	m Ω
Typical tan d (10E-4)	5,0	(Measure @ 50Hz)
Thermal resistance natural cooling (RTHN)	2,0	$^{\circ}$ C/W

Filler material	Polyurethane Resin
Dielectric	PPM Film
Over pressure safety device	
Aluminium case	
Weight	≤ 500 g

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1800	V
Maximum peak current (IPK)	4	kA
Max. Voltage raise of rise (dV/dt)	75	V/ μ s
Maximum surge current (Is)	7,0	kA

TEST DATA

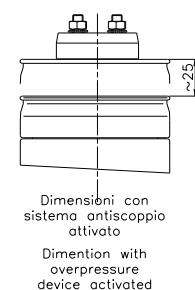
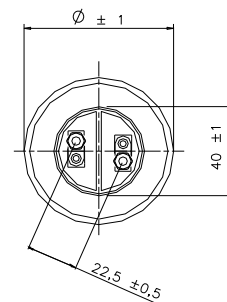
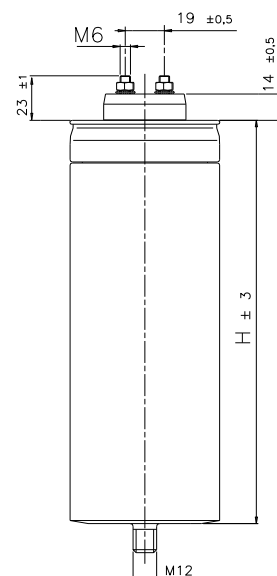
DC Test voltage terminal to terminal	1,5xUn x 10s	Vdc
AC test voltage terminal to case	3kVx 10s	Vac 50Hz

CLIMATIC CATEGORY

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

(*) According to table 1 – maximum dissipation power –

Operat. Temp.	Max. Dissip. Power
[$^{\circ}$ C]	[W]
65	10
70	7,5
75	5
80	2,5



Ø [mm]	H [mm]
60 $\pm$ 1	150 $\pm$ 3

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

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Failure quota	100/10E9
Expected life time (Ln)	100.000 h @ Urms / 70°C HS
Expected life time (Ln)	50.000 h @ Urms / 80°C HS

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

Total elongation is about 20 mm after the overpressure disconnecter release. Don't use rigid connections.

