

DUCATI energia	CAPACITOR for POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	C = 30 μ F 525 Vac / 940 Vdc
S.p.A		Part. Number : 416.84.5114

CHARACTERISTICS

Rated Capacitance	30	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	525	V
Rated DC Voltage (Un)	940	V
Maximum Current (Imax) @ θ_{MAX}	20	A
Self-inductance	<160	nH
Equivalent series resistance (RESR)	<50	m Ω
Typical tan d (10E-4)	4,0	(Measure @ 50Hz)
Thermal resistance natural cooling (RTHN)	2,2	$^{\circ}$ C/W

Filler material	Polyurethane Resin
Dielectric	PPM Film
Over pressure safety device	
Aluminium case	
Weight	≤ 400 g
Discharge device (according to IEC 61071)	330K Ω – 2,5W

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1800	V
Maximum peak current (IPK)	30	A
Max. Voltage raise of rise (dV/dt)	75	V/ μ s
Maximum surge current (Is)	3,5	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

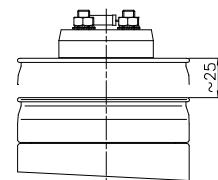
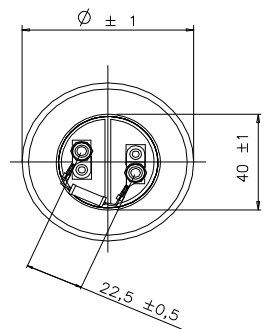
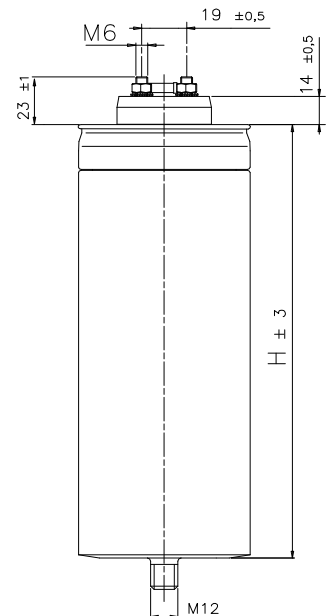
Min.operating temperature (θ_{MIN})	-25	$^{\circ}$ C
Max. operating temperature (θ_{MAX})	+70	$^{\circ}$ C
Storage temperature	-40 +85	$^{\circ}$ C
Altitude maximum	2000m	a.s.l.

Failure quota	300/10E9
Expected life (Ln)	100.000 h @ 525Vac / 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. E192559]



Dimensioni con sistema antiscoppio attivato

Dimension with overpressure device activated

\varnothing [mm]	H [mm]
55 \pm 1	150 \pm 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
-	24/11/06	First issue	A. Govoni