

DUCATI energia	CAPACITOR for	C = 80 μ F 450 Vac / 825 Vdc
S.p.A	POWER ELECTRONIC	Part. Number : 416.84.4382
	- GENERAL PURPOSE APPLICATIONS -	

CHARACTERISTICS

Rated Capacitance	80	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	450	V
Rated DC Voltage (Un)	600	V
Maximum Current (Imax) @ θ_{MAX}	28	A
Self-inductance	< 170	nH
Equivalent series resistance (RESR)	< 25	m Ω
Typical tan d (10E-4)	5,0	(Measure @ 50Hz)
Thermal resistance natural cooling (R _{THN})	1,8	°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})	42	A
Max. Voltage raise of rise (dV/dt)	75	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	°C
Max. operating temperature (θ_{MAX})	+70	°C
Storage temperature	-40 +85	°C
Altitude maximum	2000m	a.s.l.

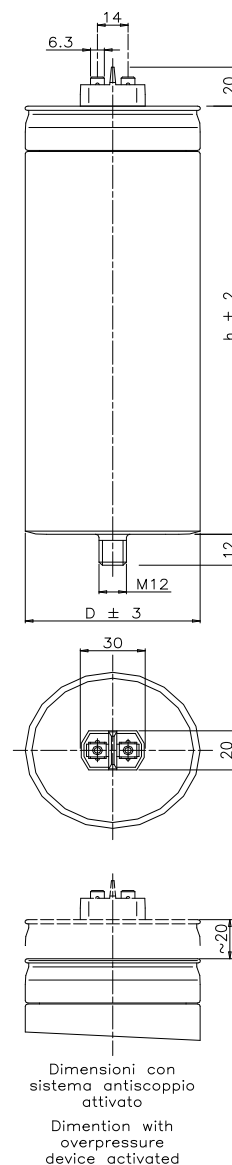
Failure quota	300/10E9	
Expected life (Ln)	100.000 h @ 450Vac / 50Hz	

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. E192559]

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



Ø [mm]	H [mm]
65 ± 1	150 ± 3

Fixing Stud	M12
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Release	Date	Description	Technician
-	21/04/06	First issue	A. Govoni