

DUCATI energia	CAPACITOR for POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	C = 400 μ F 250 Vac / 490 Vdc
S.p.A		Part. Number : 416.84.2771

CHARACTERISTICS

Rated Capacitance	400	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	250	V
Rated DC Voltage (Un)	490	V
Maximum Current (Imax) @ θ_{MAX}	45	A
Self-inductance	< 210	nH
Series resistance (Rs)	< 8	m Ω
Typical tan d (10E-4)	6,0	(Measure @ 50Hz)
Thermal resistance natural cooling (R _{THN})	1,1	$^{\circ}$ C/W

Filler material	Polyurethane Resin
Dielectric	PPM Film
Over pressure safety device	
Aluminium case	
Weight	≤ 1100 g

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	950	V
Maximum peak current (I _{PK})	68	A
Max. Voltage raise of rise (dV/dt)	35	V/ μ s
Maximum surge current (Is)	20	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.

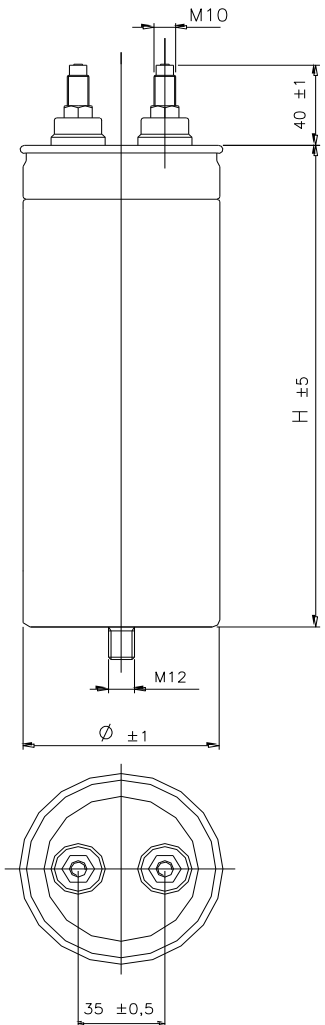
Failure quota	300/10E9
Expected life (Ln)	100.000 h @ 250Vac / 50Hz

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

STANDARDS

EN 61071-1/2
UL - CSA approval [File No. E192559]

Total elongation is about 35 mm after the overpressure disconnecter release.
Don't use rigid connections.



\varnothing [mm]	H [mm]	A
85 \pm 1	180 \pm 5	M10

Maximum Fixing Torque for M10 terminals*	6 [Nm]
Fixing Stud	M12

*To avoid breaking, complete the tightening of the nuts using two wrenches.

Release	Date	Description	Technician
-	22-03-06	First issue	A. Govoni
A	01/06/22	Updated DC voltage	E. P.