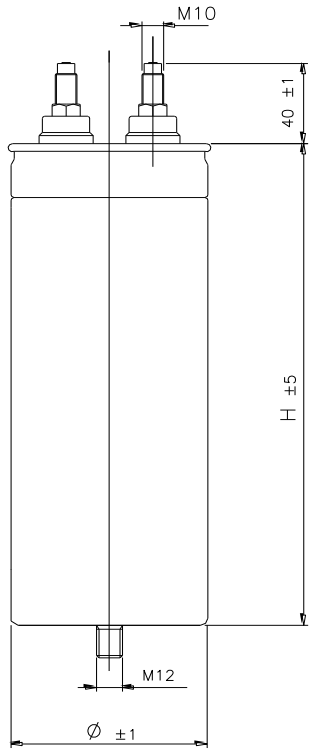
DUCATI energia	CAPACITOR for	C = 200 µF 450 Vac / 825 Vdc
S.p.A	POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	Part. Number : **416.84.4831**

CHARACTERISTICS

Rated Capacitance	200	µF
Capacitance Tolerance	±5%	
Rated AC Voltage (Urms)	450	V
Rated DC Voltage (Un)	825	V
Maximum Current (Imax) @ θ_{MAX}	70	A
Self-inductance	< 230	nH
Equivalent series resistance (R_{ESR})	< 12	mΩ
Typical tan d (10E-4)	7,0	(Measure @ 50Hz)
Thermal resistance natural cooling (R_{THN})	0,9	°C/W
Filler material	Polyurethane Resin	
Dielectric	PPM Film	
Over pressure safety device		
Aluminium case		
Weight	≤ 1450	g

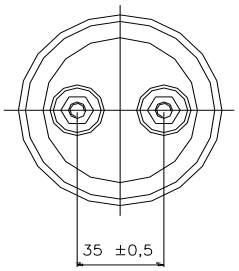


MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1600	V
Maximum peak current (I_{PK})	105	A
Max. Voltage raise of rise (dV/dt)	40	V/µs
Maximum surge current (Is)	9,7	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	In accord. with DIN 40040	F
Insulating	In accord. with UL 810/ UL 840	
Vibration resistance	In accord. with EIA STAND. RS-186-7E	

Ø [mm]	H [mm]	A
90 ± 1	210 ± 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.

STANDARDS

EN 61071-1/2

UL - CSA approval [File No. E192559]

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

Release	Date	Description	Technician
-	22/08/06	First issue	A. Govoni