

DUCATI energia	CAPACITOR for POWER ELECTRONIC - GENERAL PURPOSE APPLICATIONS -	C = 100 μ F 330 Vac / 600 Vdc
S.p.A		Part. Number: 416.84.3298

CHARACTERISTICS

Rated Capacitance	100	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated AC Voltage (Urms)	330	V
Rated DC Voltage (Un)	600	V
Maximum Current (Imax) @ θ_{MAX}	26	A
Self-inductance	< 160	nH
Equivalent series resistance (Rs)	< 8	m Ω
Typical tan d (10E-4)	5,0	(Measure @ 50Hz)
Thermal resistance natural cooling (R _{THN})	2,2	$^{\circ}$ C/W

Filler material	Polyurethane Resin
Dielectric	PPM Film
Over pressure safety device	
Aluminium case	
Weight	≤ 600 g

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1150	V
Maximum peak current (I _{PK})	39	A
Max. Voltage raise of rise (dV/dt)	75	V/ μ s
Maximum surge current (Is)	8	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})	-40	$^{\circ}$ 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	@ 330Vac / 70 $^{\circ}$ C HS 50Hz

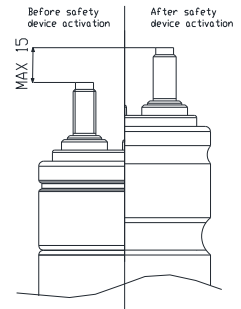
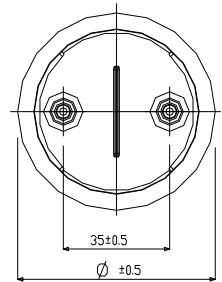
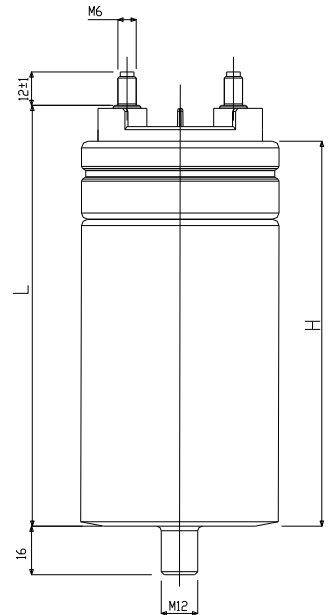
Humidity category	In accord. with DIN 40040	F
Insulating	In accord. with UL 810 / UL 840	
Vibration resistance	In accord. with EIA STAND. RS-186-7E	

STANDARDS

EN 61071-1/2
UL - CSA approval [File No. E102953]

Total elongation is about 20 mm after the overpressure disconnecter release.

Don't use rigid connections



\varnothing [mm]	H [mm]	L [mm]
65 \pm 0.5	150 \pm 3	166 \pm 3

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

Release	Date	Description	Technician
-	12/06/23	First issue (preliminary P.N. 216840358)	E. P.