



DUCATI energia

**CAPACITOR for
POWER ELECTRONIC**
- Low inductance DC Filters capacitors -

DCH 85 C Cn=5600µF Un=700Vdc

Part. Number: **416.85V.0950**

DCH 85 C

High Density DC - Link Capacitors on cylindrical can

CHARACTERISTICS

Rated Capacitance	5600	µF
Capacitance Tolerance	±10%	
Rated DC Voltage (Un)	700	Vdc
Maximum ripple Voltage (Ur)	90	Vrms
Max. Current (Imax)	100	A rms
Max. fundamental freq. (fo)	<10	KHz
Self-inductance	<90	nH
Series resistance (Rs)	< 0.7	mΩ
Typical tan d (10E-4)	9,5	(Measure @ 50Hz)
Thermal resistance forced cooling (R _{THN}) case-amb.	1,6	°C/W
Filler material	UL94 V0 resin.	
Dielectric	Self healing PPM-DH Film.	
Cover	Self extinguishing UL94 plastic top	
Can	Aluminum	
Weight	≤ 4,80 kg	

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	1470	V
Repetitive peak voltage	1050	V
Maximum peak current (I _{PK})	10	kA
Max. Voltage raise of rise (dV/dt)	2	V/µs
Maximum surge current (Is)	22	kA

TEST DATA

DC Test voltage terminal to terminal	1,5xUn 60s	Vdc
AC test voltage terminal to case	3.5kV 60s	Vac 50Hz

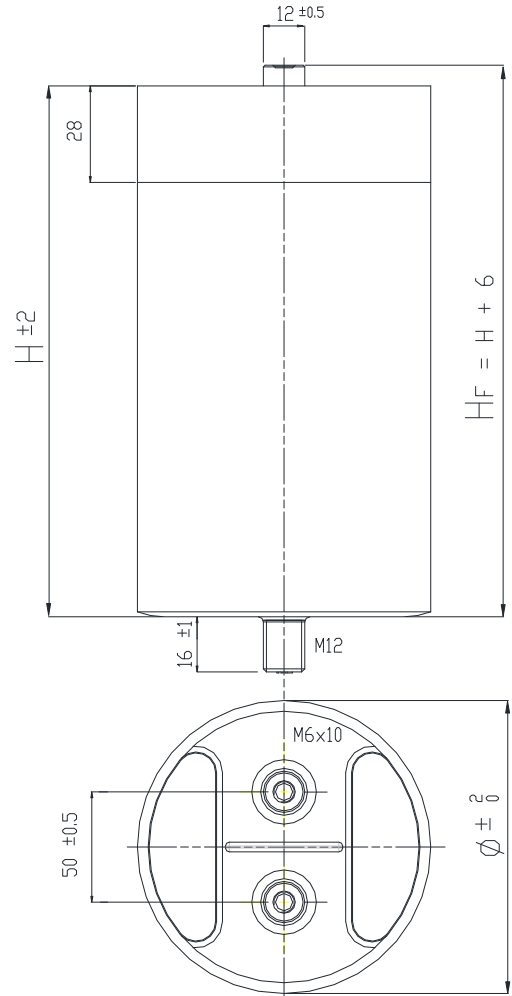
CLIMATIC CATEGORY

Min.operating temp. (θ _{MIN})	-25	°C
Max. operating temp. (θ _{MAX})	+75	°C
Hot Spot temperature (θ _{HS})	+85	°C
Storage temperature	-40 +85	°C
Altitude maximum	2000m	a.s.l.

Failure quota	50/10E9	
Expected life (Ln)	100.000 h	@100V 70°C Hot spot.

STANDARDS

IEC 1071 / EN 61071-1/2
 Insulating: according to UL 810
 UL approved - File nr. E192559



Fixing

M12 x 16 Fixing Stud
 Permissible tightening torque: 10Nm

Ø [mm]	H [mm]	HF[mm]
116	373	379 ± 2

Electrical connection:

M6x10 internal thread,
 external Ø = 12mm.
 Permissible tightening torque: 5Nm

Spacings

Through air: 38 mm
 Over surface: > 55 mm

Release	Date	Description	Technician
-	26/10/15	First issue	A. G.