



**DUCATI** energia

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

**DCH 85 C** Cn=400µF Un=1100Vdc

Part. Number: **416.85V.2390**

## DCH 85 C

### High Density DC - Link Capacitors on cylindrical can

#### CHARACTERISTICS

Rated Capacitance	400	µF
Capacitance Tolerance	±5%	
Rated DC Voltage (Un)	1100	Vdc
Maximum ripple Voltage (Ur)	110	Vrms
Max. Current (Imax)	35	A rms
Max. fundamental freq. (fo)	<20	KHz
Self-inductance	<50	nH
Series resistance (Rs)	< 3.8	mΩ
Typical tan d (10E-4)	7,0	(Measure @ 50Hz)
Thermal resistance forced cooling (R <sub>THN</sub> ) case-amb.	4,8	°C/W
Filler material	UL94 V0 resin.	
Dielectric	Self healing PPM-DH Film.	
Cover	Self extinguishing UL94 plastic top	
Can	Aluminum	
Weight	≤ 0,80 kg	

#### MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Non-recurrent surge voltage (Us)	2300	V
Repetitive peak voltage	1350	V
Maximum peak current (I <sub>PK</sub> )	3.5	kA
Max. Voltage raise of rise (dV/dt)	9	V/µs
Maximum surge current (Is)	10.3	kA

#### TEST DATA

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

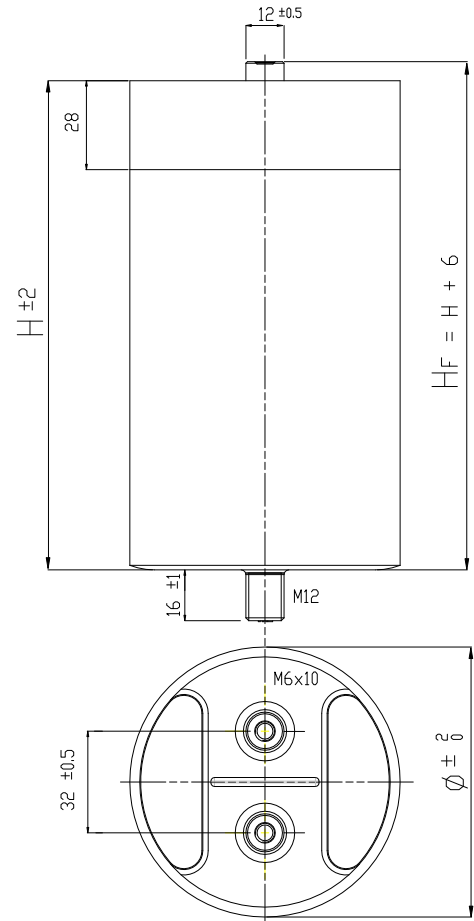
#### CLIMATIC CATEGORY

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

Failure quota	50/10E9	
Expected life (Ln)	100.000 h	@1100V 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]
75	140	146 ±2

#### Electrical connection:

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

#### Spacings

Through air: 20 mm  
Over surface: > 36 mm

Release	Date	Description	Technician
-	21/10/15	First issue	A. G.