

DUCATI energia	CAPACITOR for POWER ELECTRONIC - Low inductance DC Filters capacitors -	C = 900 μ F 1100 Vdc
S.p.A		Part. Number : 4.16.85.2505

CHARACTERISTICS

Rated Capacitance	900	μ F
Capacitance Tolerance	$\pm 5\%$	
Rated DC Voltage (Un)	1100	Vdc
Maximum ripple Voltage (Urms)	300	Vac
Maximum Current (Imax) @ θ MAX	120	A rms
Self-inductance	< 30	nH
Series resistance (Rs)	< 0.7	m Ω
Typical tan d (10E-4)	7,5	(Measure @ 50Hz)
Thermal resistance natural cooling (R _{THN})	1,95	$^{\circ}$ C/W

Filler material	Polyurethane self extinguishing resin (V0).	
Dielectric	Self healing PPM-D Film.	
Case	Self extinguishing plastic case (box shape).	
Weight	≤ 5	kg

MAXIMUM RATINGS

Over voltage	1.1 Un	8hours/day
Insulation voltage (Ui)	5000	V
Non-recurrent surge voltage (Us)	2300	V
Periodic peak Voltage (Umax)	1200	V
Maximum peak current (I _{PK})	10	kA
Max. Voltage raise of rise (dV/dt)	20	V/ μ s
Maximum surge current (Is)	20	kA

TEST DATA

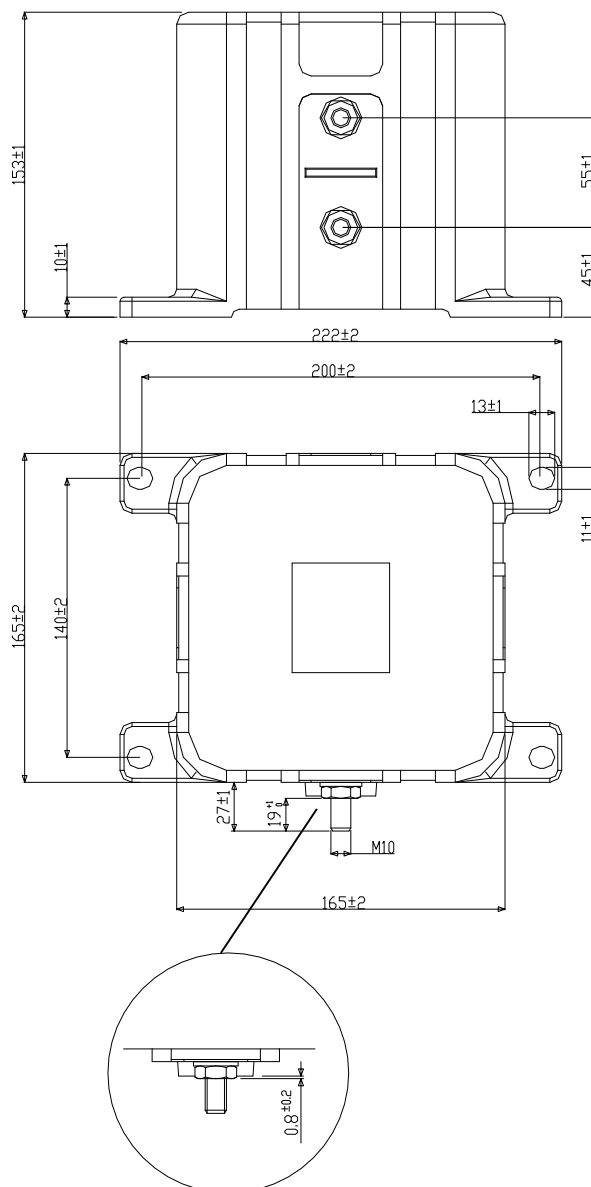
DC Test voltage terminal to terminal	1.5 x Un	Vdc
	10s	
AC test voltage terminal to case	10kV 60s	Vac 50Hz

CLIMATIC CATEGORY

Min./ Max operating temperature ($\theta_{MIN} / \theta_{MAX}$)	-25/+75	$^{\circ}$ C
Storage temperature	-40 / +85	$^{\circ}$ C
Altitude maximum	2000m	a.s.l.
Failure quota	300/10E9	
Expected life (Ln)	100.000 h	@ 1000Vdc-50 $^{\circ}$ C amb

STANDARDS

Insulating	IEC 1071 / EN 61071-1/2 According to UL 810 / UL 840 EN 45545-2 "Fire protection"
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Max. fixing torque for M10 terminals*	10 [Nm]
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*To avoid breaking, complete the tightening of the nuts using two wrenches.

Max. fixing torque for fixing bolt	11 [Nm]
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Creepage distance: ≥ 40 mm
Clearance distance: ≥ 40 mm

Release	Date	Description	Technician
-	20/02/08	First issue (preliminary code: 216.85.0079)	A.G.
A	30/06/08	Definitive code.	A.G.
B	06/07/08	Second issue	A.G.
C	04/09/12	Third issue	A.G.
D	08/02/18	4 th issue	A.G.