

CAPACITOR for POWER ELECTRONIC

- High current DC Filters capacitors -

DC89 HC - Cn = 40uF 1450V

Part Number: 416.89.1450

DC 89 HC

DC-Link, High current Capacitors in cylindrical plastic case.



1. Technical data (in according to IEC 61071).

Rated Capacitance and tollerance	μF	40 ±10%	
Rated DC Voltage (Un)	V	1450	
Series resistance (Rs)	$m\Omega$	< 1.45	
Maximum Current (Imax) - @50°C ambient	ARMS	60	
Maximum peak Currents (Ip)	kA	3.2	
Thermal resistance (R _{THC}) nat. cool. (*)	°C/W	5.7	
Surge Current (Is)	kA	4.8	
Maximum peak voltage (Upk) - repetitive	V	2200	
Maximum peak Voltage (Us) – non repetitive	V	2900	
Self-inductance	nΗ	< 30	
Max. voltage raise of rise (dV/dt)	V/us	80	
Voltage test terminal - terminal	V	1.5 x Un - 10s	
Voltage test terminal – ground	V	3 kVac 50Hz - 60s	

Filler material	Polyurethane self extinguishing resin.

Dielectric Self healing Polypropilene metallized film – segmented internal

pattern.

Case Self extinguishing plastic case (UL94 V0) with an aluminum

dissipative plate on the bottom side.

Safety system This capacitors are designed with a particular type of

polypropylene metalized film (segmented internal pattern) that assure an open circuit at the end of life, if the service is within

the specification.

Fixing type mm $2x \ \varnothing 5.6$ Max. tightening torque on fixing holes Nm 2.5

TERMINALS AND INSULATION

Terminals type	mm	M8x20 screw type bolts (also available with threads female connection type)
Max. tightening torque on M8 terminal	Nm	5
Creepage distance	mm	35
Clearance distance	mm	27

Release	Date	Description	Technician
-	25/01/12	First issue	A.G.
A	07/03/13	Changed max. torque for fixing holes and terminals	A.G.
В	26/09/18	Added compliance to EN 45545 / UL file.	A.G.



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20±05

CLIMATIC CATEGORY

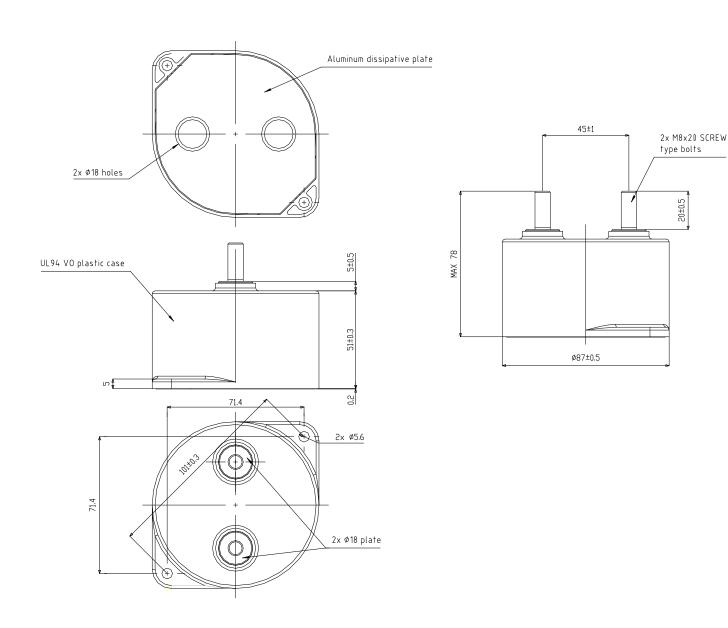
°C Min. Operating temperature -25 Max. Operating temperature °C +75 Storage temperature °C -40 .. +85 Maximum altitude 2000 m Expected life @ 70°C / Un (Vdc) 100.000 hours

STANDARDS

According to IEC 1071 / 1-2

In according to fire protection standard EN 45545-2 (2013) UL – CSA approved File n. E192559

2. Mechanical configuration.



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