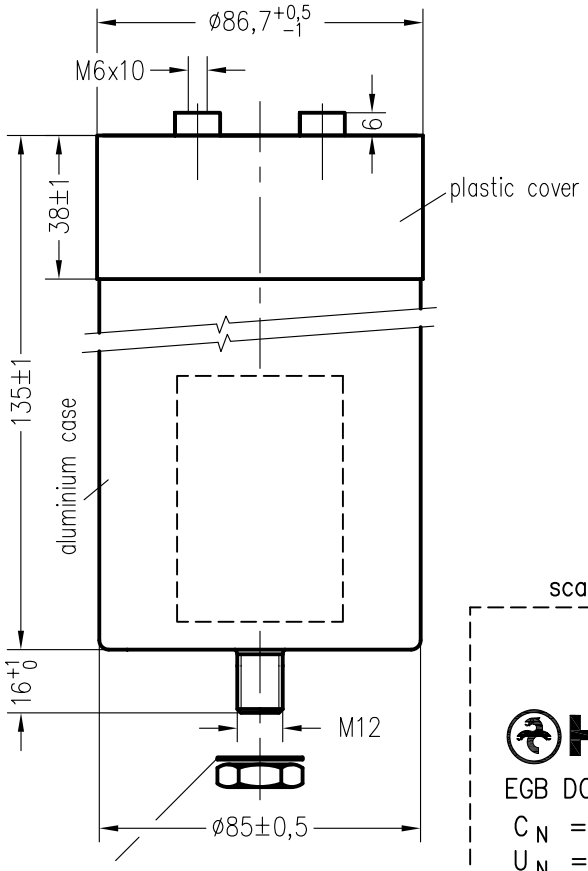
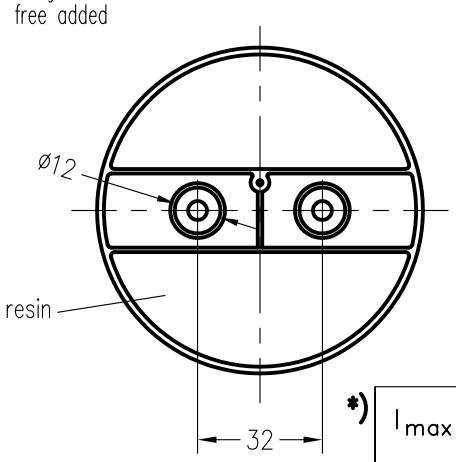
Technical data sheet

DC Filter Capacitor for Power Electronics



locking washer to Hydra Drawing 464.087 490.EZ
hexagon nut M12 DIN 439-BM12-04 GAL Zn8
free added



scale marking 1:1

HYDRA®
EGB DCL 420/1100/1754
C_N = 420 µF ±10%
U_N = 1100 V DC
I_{max} = 75 A Non PCB
temp. −40 .. +85°C
no internal protection
Filling: resin
IEC 61071/17 SH
Made in Czech Republic
order number.pcs
year.month.day

*) I_{max} = 75A (ambient temp. +40°C)
= 50A (ambient temp. +50°C)
= 40A (ambient temp. +60°C)
= 30A (ambient temp. +70°C)

all dimensions in mm !

Standards

acc. to IEC 61071 (2017-08) Ed. 2.0
acc. to IEC 60664-1 Ed. 2: 2007
acc. to UL 810 and UL 746C

Vibration resistance (IEC 60068-2-6)

f=10Hz−55Hz, amplitude=±0,35mm

Rated data

C_N = 420 µF ±10%
U_N = 1100 V DC
U_{surge} = 1650 V
I_{max} = 75 A for temp. +40 °C amb.*)
$I_{peak/periodic}$ = 2,3 kA
I_{peak} = 7 kA
Series resistance ≤ 2,3 mOhm
Self inductance ≤ 35 nH

Therm. resist. Rth. 3,9* K/W
*) No heating via terminals

Temperature class

−40 .. +85°C
Storage temp. −40/+85 °C
Service life: 100.000 h
at hotspot temp.: < 70°C

Distance data

Creep distance min. 34 mm
Strike distance min. 20 mm

Test voltage

Test voltage $U_{T/T}$ = 1650 VDC /10 s
Test voltage $U_{T/C}$ = 3600 VAC /10 s

Design

MKP metallized polypropylene capacitor encapsulated in Al case by resin, dry, PCB free, no liguid filling
Safety devices: no fuse, without interrupter

Marking

PET label
marking in black colour

Other data

Torque for bolt M12 15 Nm
Weight 0,96 Kg

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Zust.	Aenderung	Datum	Name	Norm.	

Freimasstoleranzen | Oberflaechen

Masstab: 1:2 | F:\AUTOCAD VYKRESY\SET_KK\TD\170977TD.DWG

Werkstoff:

	Datum	Name
2012		
Bearb.	6 .FEB.	Chrtek
Gepr.		
Norm.		

HYDRA®

Technical data sheet EGB DCL 420/1100/1754

464.170 977.TD

Blatt 1 | 1 Bl.

Ers. f.: | Ers. d.: