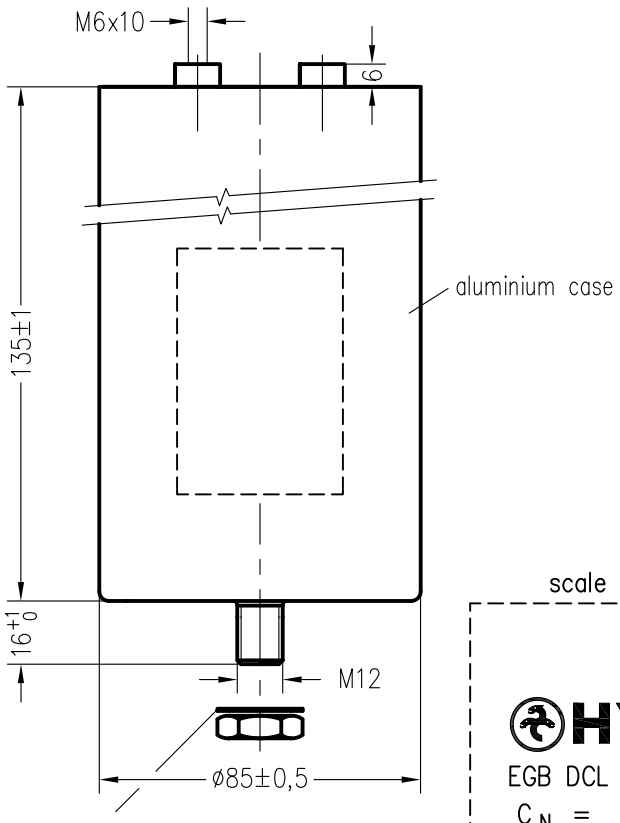
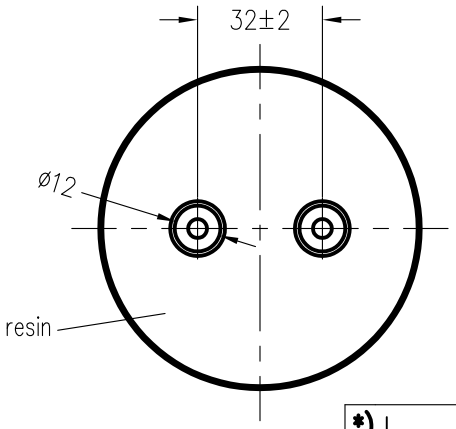
Technical data sheet

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 420/1100/2098
C_N = 420 µF ±10%
U_N = 1100 V DC
I_{max} = 60 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} = 60A (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} = 60 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

Storage conditions for Hydra capacitors see instruction 464.073 909.FA appendix 10.

Freimasstoleranzen	Oberflaechen

Masstab: 1:2
C:\SET\AutoCAD vykresy\SET_KK\TD\188804td.dwg
Werkstoff:

2020	Datum	Name		
Bearb.	28.MAI.	Chrtek		
Gepr.				
Norm.				

Zust.	Aenderung	Datum	Name	Norm.
01	0246/20	22.12.	Dan	

Urspr.:

HYDRA®

Technical data sheet EGB DCL 420/1100/2098

464.188 804.TD

Blatt 1
1 Bl.

Ers. f.: Ers. d.: