

Film-Foil Capacitors

date: 16.11.2007 10:45
issued by: db
version: 1.0
29.11.2007 12:32

Technical data

Nominal capacitance	C_N	1500 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	800 V
Energy	W_N	480 Ws
Nominal current	I_N	120 A
Max. Peak current	\hat{I}	10 kA
Max. Pulse rise time	$\Delta U/\Delta t$	6,67 V/ μs
Series resistance	R_{ESR}	< 2 m Ω
Dissipation factor	$\tan\delta$	2 x10 ⁻⁴
Self inductance	L_E	15 nH
Min. Operating temperature	ϑ_{min}	-25 °C
Max. Operating temperature @ hotspot	ϑ_{max}	+85 °C
Storage temperature	ϑ_{Lager}	-40...+85 °C
Climatic category DIN IEC 68/1		25/070/21

Test Data

Test voltage between terminations U_{TT} 1200 V dc / 10s

Life expectancy @ hot spot 60°C 30000 h

General technical data

Coating plastic case with resin sealing
Flame retardant according to UL 94-V0
Dielectric polypropylene
Terminals tinned copper

Condensateurs CH-1400 Yverdon-les-Bains
Kondensatoren Tél. : ++41 24 445 66 88
Capacitors Fax : ++41 24 445 66 89

Le lanché
Capacitors
A FISCHER & TAUSCHÉ COMPANY

22.04.2008

**Polypropylene IGBT
Capacitor****Film-Foil Capacitors****Technical data**

Nominal capacitance	C_N	1000 $\mu\text{F} \pm 5\%$
Nominal voltage dc	U_{NDC}	900 V
Surge voltage	U_s	1350 V
Energy	W_N	405 Ws
Nominal current	I_N	120 A
Max. Peak current	\hat{I}	5,6 kA
Max. Pulse rise time	$\Delta U/\Delta t$	5,6 V/ μs
Series resistance	R_s	< 2 m Ω
Dissipation factor	$\tan\delta_0$	2 $\times 10^{-4}$
Insulation resistance	$C \times R_{\text{iso}}$	10000 s
Self inductance	L_E	30 nH
Min. working temperature	ϑ_{min}	-40 °C
Max. working temperature	ϑ_{max}	+70 °C
Storage temperature Climatic DIN IEC 68/1	ϑ_{Lager}	-45...+85 °C 40/070/21

Test data

Test voltage between terminals	U_{TT}	1350 V dc / 10s
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Life expectancy

		200 000 h
@ $\vartheta_{\text{hotspot}}$		55 °C
Failure rate		30 fit
Conditions 0,9 x U_N		

General technical data

Casing material	PVC box with resin potted
Dielectric	polypropylene
Weight	~ 2,2 kg

Condensateurs CH-1400 Yverdon-les-Bains
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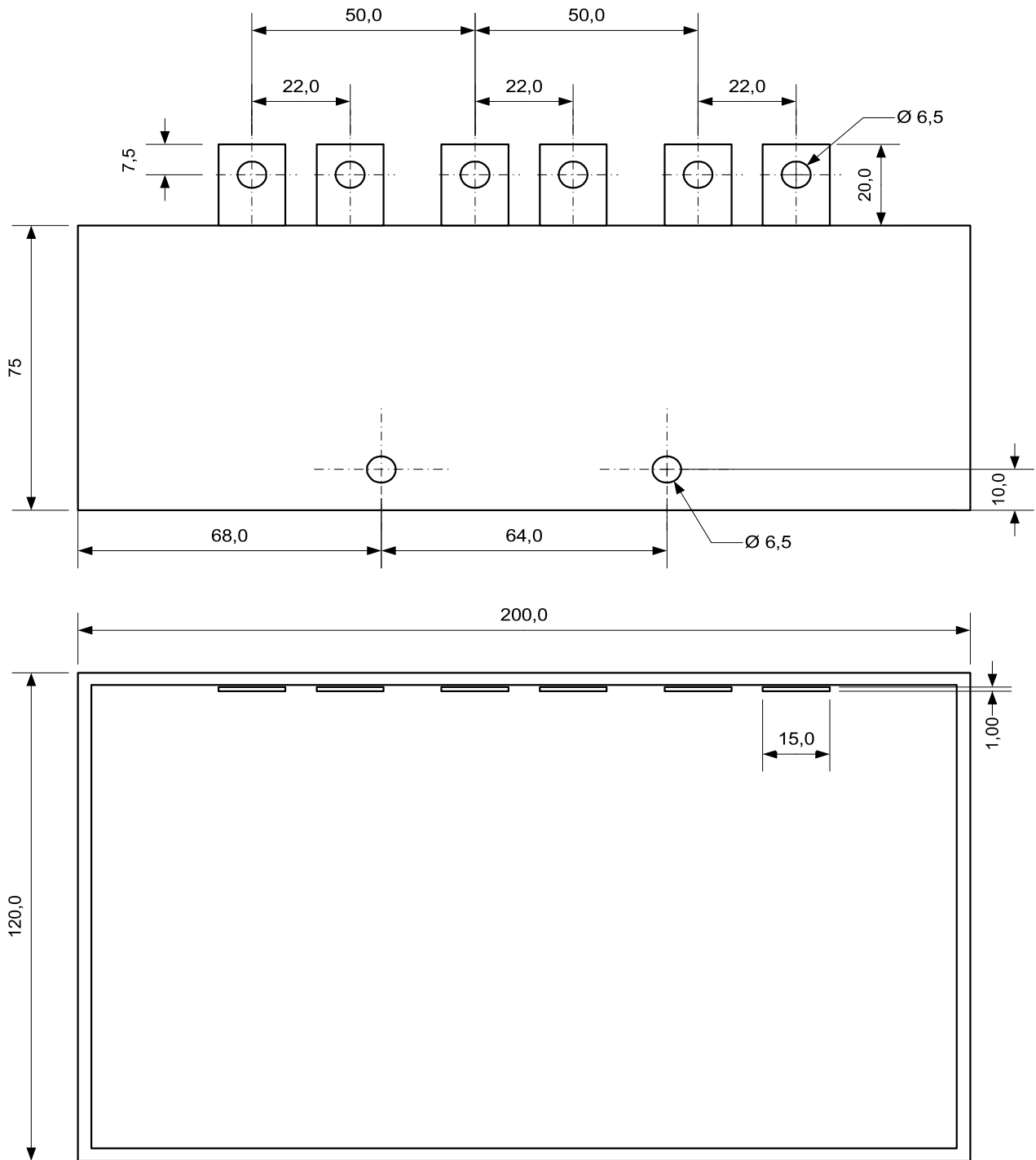


capinfo@lcap.ch
25.02.2008

Polypropylene IGBT
Capacitor

Film-Foil Capacitors

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25.02.2008



Film-Foil Capacitors

date: 12.01.2007
 issued by: db
 version: 1.0
 25.06.2007
 09:00

Technical data

Nominal capacitance	C_N	350 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	1800 V
Nominal voltage ac	U_{NAC}	500 V
Energy	W_N	43,75 Ws

Max. Peak current	\hat{I}	12,5 kA
Max. Pulse rise time	$\Delta U/\Delta t$	35 V/ μs
Series resistance	R_S	< 2 m Ω
Dissipation factor	$\tan\delta$	< 4 $\times 10^{-3}$
Self inductance	L_E	< 35 nH

Min. Operating temperature	ϑ_{min}	-25 °C
Max. Operating temperature	ϑ_{max}	+70 °C
Storage temperature	ϑ_{Lager}	-25...+85 °C
Climatic category DIN IEC 68/1		25/070/21

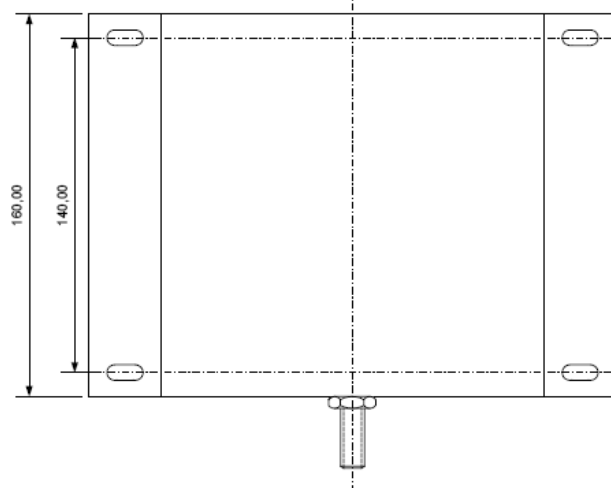
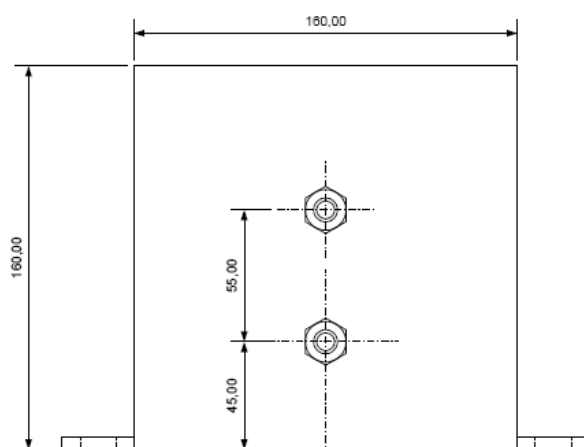
Test Data

Test voltage between terminations	U_{TT}	2700 V dc / 2s
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Life expectancy @ hot spot		30000 h 60 °C
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General technical data

Coating	plastic case according to UL 94-V2 with resin sealing Flame retardant according to UL 94-V0
Dielectric	polypropylene
Terminals	screw M10



Condensateurs	CH-1400 Yverdon-les-Bains
Kondensatoren	Tél. : ++41 24 445 66 88
Capacitors	Fax : ++41 24 445 66 89

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22.04.2008

Film-Foil Capacitors

date: 30.07.2007
issued by: db
version: 1.4
08.11.2007
14:11

Technical data

Nominal capacitance	C_N	1000 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	1800 V
Energy	W_N	1620 Ws
Nominal current	I_N	130 A
Max. Peak current	\hat{I}	25 kA
Max. Pulse rise time	$\Delta U/\Delta t$	25 V/ μs
Series resistance	R_S	< 1 m Ω
Dissipation factor	$\tan\delta$	2 $\times 10^{-4}$
Self inductance	L_E	< 60 nH
Min. Operating temperature	ϑ_{min}	-40 °C
Max. Operating temperature	ϑ_{max}	+70 °C
Storage temperature	ϑ_{Lager}	-40...+85 °C
Climatic category DIN IEC 68/1		40/070/21

Test Data

Test voltage between terminals	U_{TT}	2700 V dc / 10s
Test voltage between terminal/case	U_{TC}	5000 V ac / 60s

Life expectancy	100 000 h
@ hot spot	55 °C

General technical data

Casing material	Stainless Steel, Polyurethane Resin
Dielectric	Polypropylene
Terminals	M8 x 25, torque 10Nm On receipt of the caps the terminals will be short circuited
Weight	ca. 13 kg

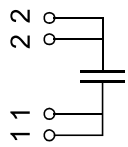
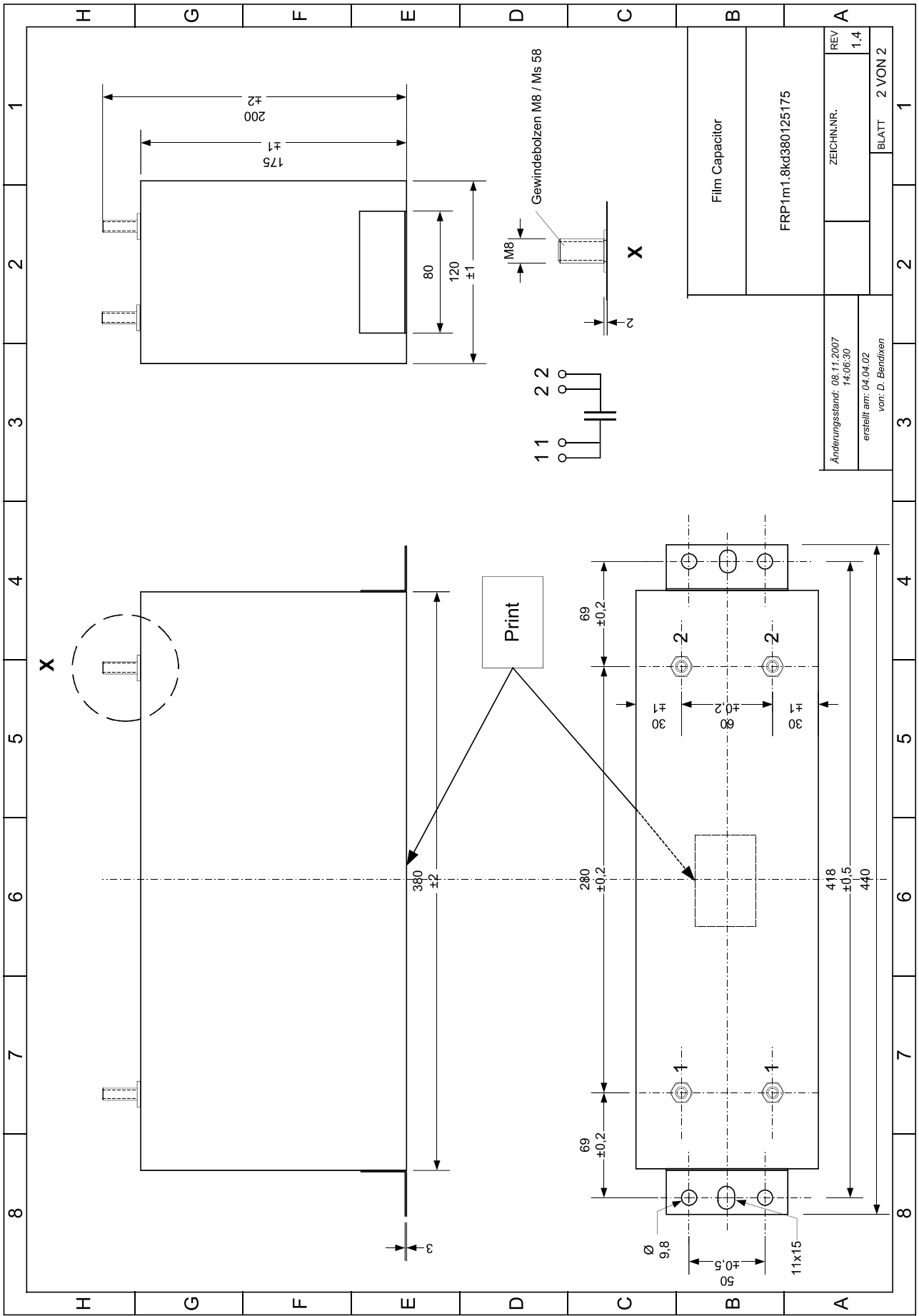
Print

F&T FRP
1000 $\mu\text{F} \pm 10\%$
1800 VDC
>Date Code Year/Month<
1008854

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22.04.2008



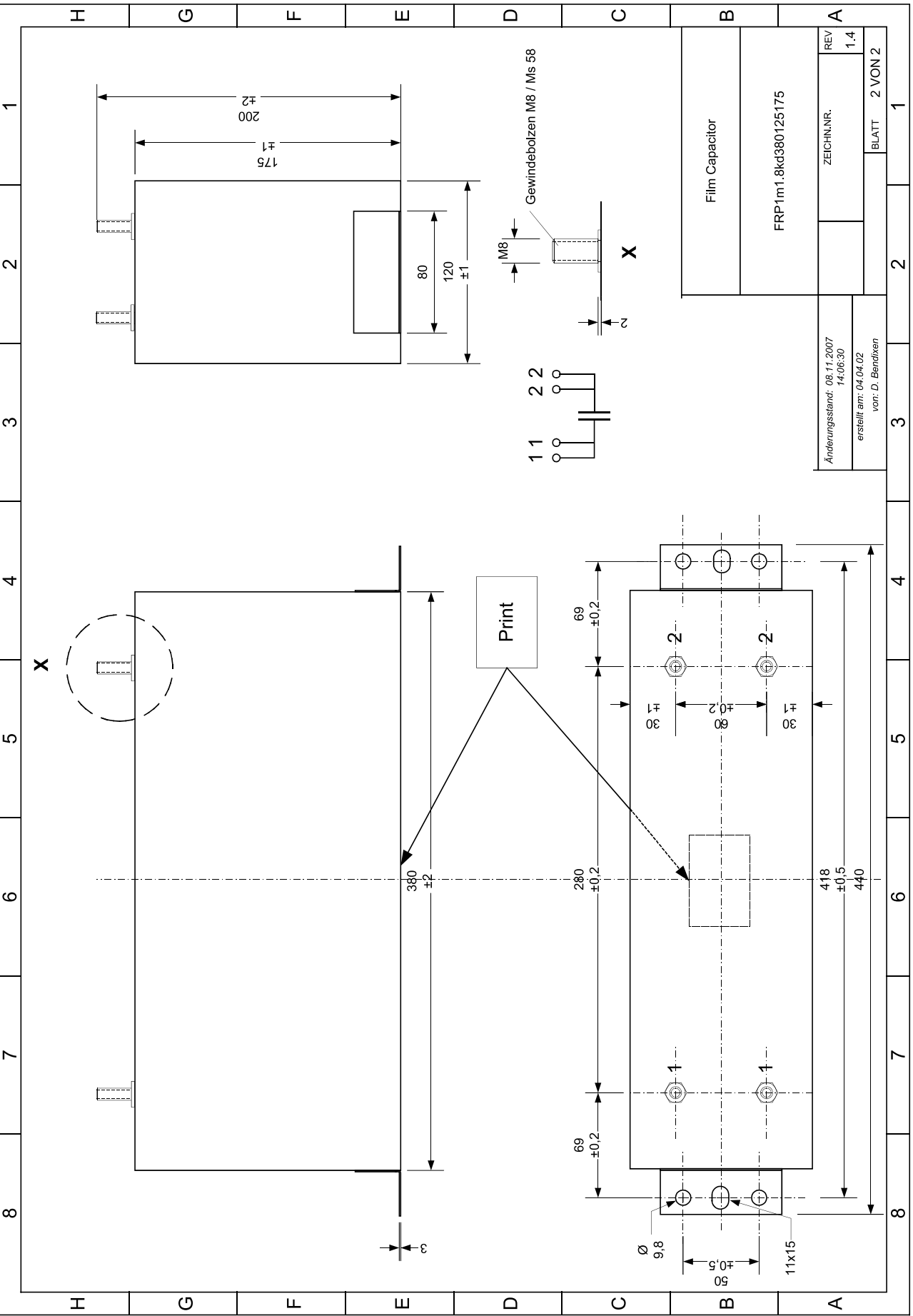
Gewindebolzen M8 / Ms 58

Film Capacitor

FRP1m1.8kd380125175

Änderungsstand: 08.11.2007
14:06:30
erstellt am: 04.04.02
von: D. Bendken

ZEICHN.NR.	REV
	1,4
BLATT	2 VON 2



Film-Foil Capacitors

date: 06.08.2007
issued by: db
version: 1.5
08.11.2007
14:05

Technical data

Nominal capacitance	C_N	2600 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	1800 V
Energy	W_N	4212 Ws
Nominal current	I_N	260 A
Max. Peak current	\hat{I}	39 kA
Max. Pulse rise time	$\Delta U/\Delta t$	15 V/ μs
Series resistance	R_S	< 1 m Ω
Dissipation factor	$\tan\delta$	2 x10 ⁻⁴
Self inductance	L_E	< 60 nH
Min. Operating temperature	ϑ_{min}	-40 °C
Max. Operating temperature	ϑ_{max}	+70 °C
Storage temperature	ϑ_{Lager}	-40...+85 °C
Climatic category DIN IEC 68/1		40/070/21

Test Data

Test voltage between terminals	U_{TT}	2700 V dc / 10s
Test voltage between terminal/case	U_{TC}	5000 V ac / 60s

Life expectancy	100 000 h
@ hot spot	55 °C

General technical data

Casing material	Stainless Steel, Polyurethane Resin
Dielectric	Polypropylene
Terminals	M8 x 22, torque 10Nm
	On receipt of the caps the terminals will be short circuited
Weight	ca. 31 kg

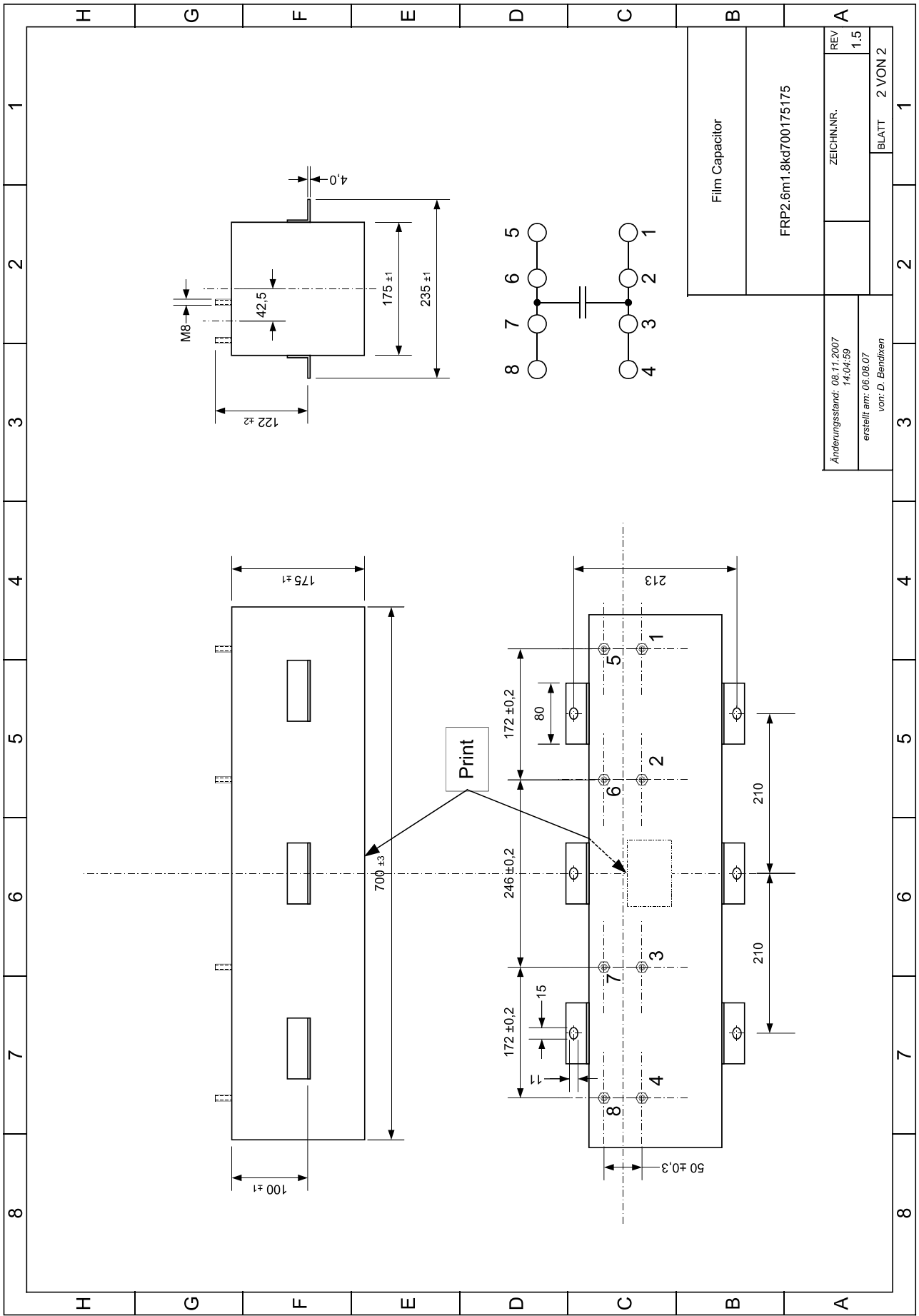
Print

F&T FRP
2600 $\mu\text{F} \pm 10\%$
1800 VDC
>Date Code Year/Month<
1008721

Condensateurs CH-1400 Yverdon-les-Bains
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Capacitors Fax : +41 24 445 66 89

Le Janché
Capacitors
A FISCHER & TAUSCHÉ COMPANY

22.04.2008



Änderungsstand: 08.11.2007
 14:04:59
 erstellt am: 06.08.07
 von: D. Bendixen

ZEICHN.NR.
 REV 1.5
 BLATT 2 VON 2

FRP2.6m1.8kd700175175

Film Capacitor