

F 6 - 8 R 06 KF

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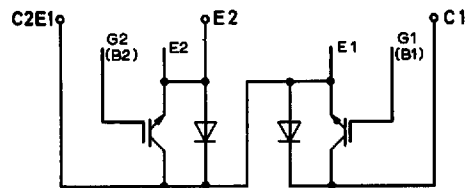
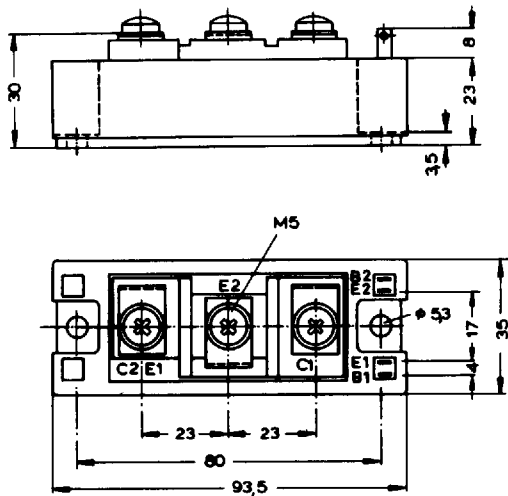
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Transistor				Thermische Eigenschaften		Thermal properties	
Elektrische Eigenschaften				R _{thJC}	DC, pro Baustein / per module DC, pro Zweig / per arm	0,417 °C/W 2,5 °C/W	
Höchstzulässige Werte				Höchstzulässige Werte		Maximum rated values	
V _{CES}				600	V		
I _C				8	A	t _{vjmax}	150 °C
I _{CRM}	t _p = 1 ms			16	A	t _{vjop}	-40 / +150 °C
P _{tot}	t _C = 25°C			50	W	t _{stg}	-40 / +125 °C
V _{GE}				20	V	Inversdiode	
V _{EG}				20	V	Inverse diode	
Charakteristische Werte				Elektrische Eigenschaften		Electrical properties	
Characteristic values				Höchstzulässige Werte		Maximum rated values	
V _{CE sat}	i _{CM} = 8 A, v _{GE} = 15 V, t _{vj} = 25°C	typ.	3 V	I _{F (max)}		8	A
	i _{CM} = 8 A, v _{GE} = 15 V, t _{vj} = 25°C	max.	4 V	I _{FRM}	t _p = 1 ms	16	A
V _{GE (th)}	v _{CE} = 5 V, i _C = 8 mA, t _{vj} = 25°C	min.	3,5 V	Charakteristische Werte			
	v _{CE} = 5 V, i _C = 8 mA, t _{vj} = 25°C	max.	6 V	Characteristic values			
C _{GE}	v _{CE} = 10 V, v _{GE} = 0 V, f _o = 1 MHz, t _{vj} = 25°C	typ.	0,65 nF	V _F	i _F = 8 A, v _{GE} = 0 V, t _{vj} = 25°C	typ.	1,5 V
I _{CES}	v _{CE} = 600 V, v _{GE} = 0 V, t _{vj} = 25°C	typ.	0,1 mA		i _F = 8 A, v _{GE} = 0 V, t _{vj} = 25°C	max.	2,5 V
	v _{CE} = 600 V, v _{GE} = 0 V, t _{vj} = 125°C	typ.	0,5 mA	I _{RM}	i _{FM} = 8 A, -di _F /dt = 50 A/μs		
I _{GES}	v _{GE} = 20 V, t _{vj} = 25°C	typ.	50 nA		v _{EG} = 10 V, t _{vj} = 25°C	typ.	4 A
	v _{GE} = 20 V, t _{vj} = 25°C	max.	500 nA		i _{FM} = 8 A, -di _F /dt = 50 A/μs		
I _{EGS}	v _{EG} = 20 V, t _{vj} = 25°C	typ.	50 nA		v _{EG} = 10 V, t _{vj} = 125°C	typ.	8 A
	v _{EG} = 20 V, t _{vj} = 25°C	max.	500 nA	Q _r	i _{FM} = 8 A, -di _F /dt = 50 A/μs		
t _{on}	i _{CM} = 8 A, v _{CE} = 300 V, v _{LF} = 15 V, R _G = 300 Ω, t _{vj} = 25°C	typ.	0,4 μs		v _{EG} = 10 V, t _{vj} = 25°C	typ.	0,45 μAs
	i _{CM} = 8 A, v _{CE} = 300 V, v _{LF} = 15 V, R _G = 300 Ω, t _{vj} = 125°C	typ.	0,5 μs		i _{FM} = 8 A, -di _F /dt = 50 A/μs		
t _s	i _{CM} = 8 A, v _{CE} = 300 V, v _{LF} = 15 V, v _{LR} = 15 V, R _G = 300 Ω, t _{vj} = 25°C	typ.	0,4 μs	Thermische Eigenschaften		Thermal properties	
	i _{CM} = 8 A, v _{CE} = 300 V, v _{LF} = 15 V, v _{LR} = 15 V, R _G = 300 Ω, t _{vj} = 125°C	typ.	0,5 μs	R _{thJC}	DC, pro Baustein / per module DC, pro Zweig / per arm	0,47 °C/W 2,8 °C/W	
t _f	i _{CM} = 8 A, v _{CE} = 300 V, v _{LF} = 15 V, v _{LR} = 15 V, R _G = 300 Ω, t _{vj} = 25°C	typ.	0,15 μs				
	i _{CM} = 8 A, v _{CE} = 300 V, v _{LF} = 15 V, v _{LR} = 15 V, R _G = 300 Ω, t _{vj} = 125°C	typ.	0,25 μs	t _{vjmax}		125 °C	
				t _{vjop}		-40 / +125 °C	
				t _{stg}		-40 / +125 °C	
Bedingungen für den Kurzschlußschutz				Innere Isolation		Internal insulation	
Conditions for protection against short circuits				Isoliermaterial: AlN		Insulating material: AlN	
t _{fg} = 10 μs,				V _{ISOL}	RMS	2,5	kV
v _{LF} = v _{LR} = 15 V,							
R _G = 300 Ω,							
t _{vj} = 125°C,							
	V _{CC} = 350 V,						
	v _{CEM} = 500 V,						
	i _{CMK1} ≈ 40 A,						
	i _{CMK2} ≈ 25 A						
				Mechanische Eigenschaften		Mechanical properties	
				G		180	g
				M1		3	Nm

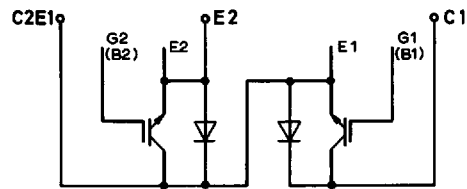
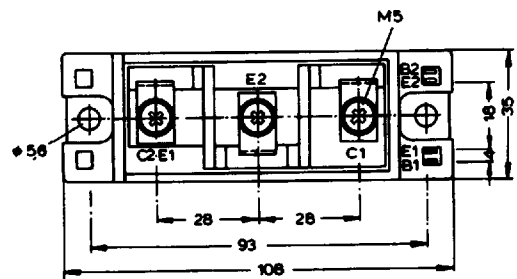
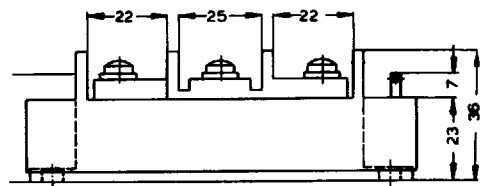
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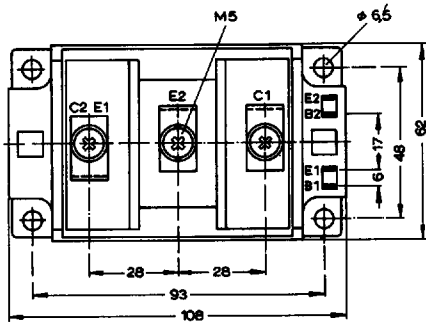
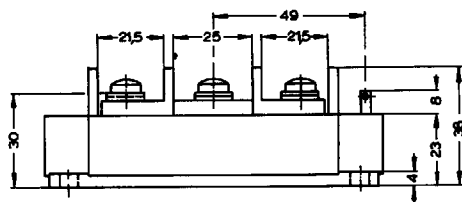
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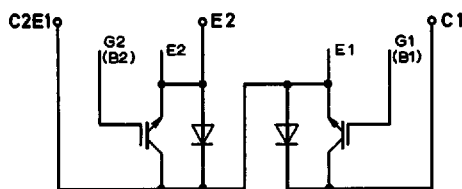
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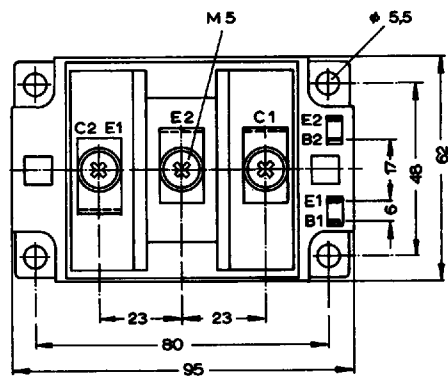
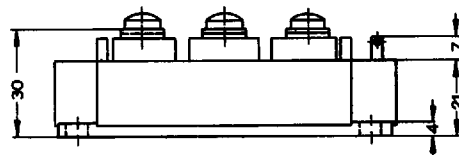


FF 100 R 1000 K

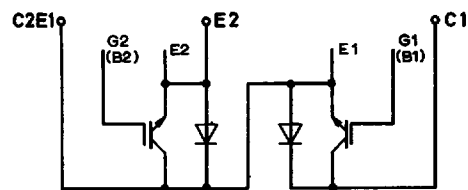


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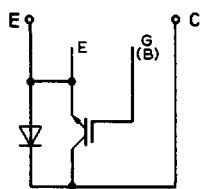
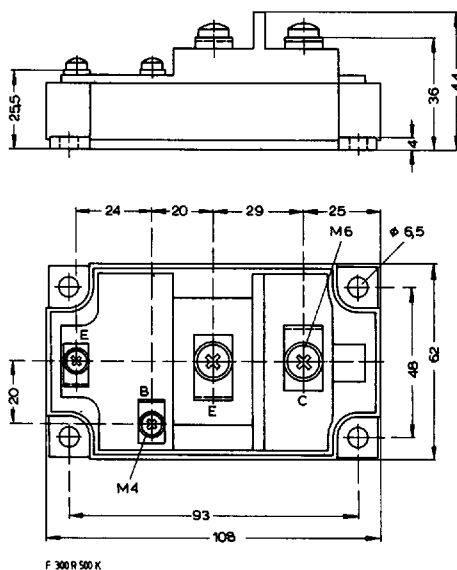
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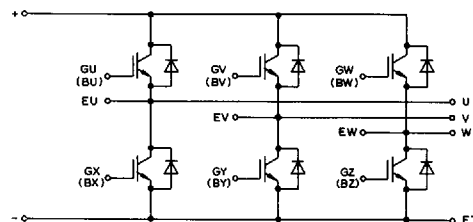
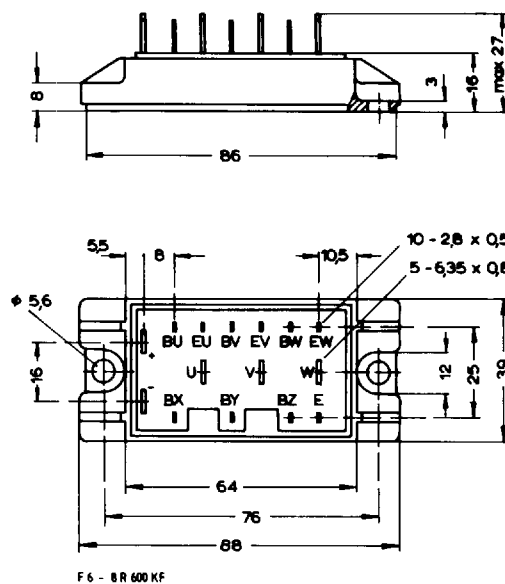
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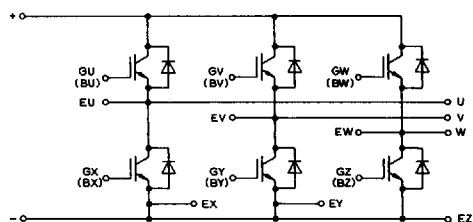
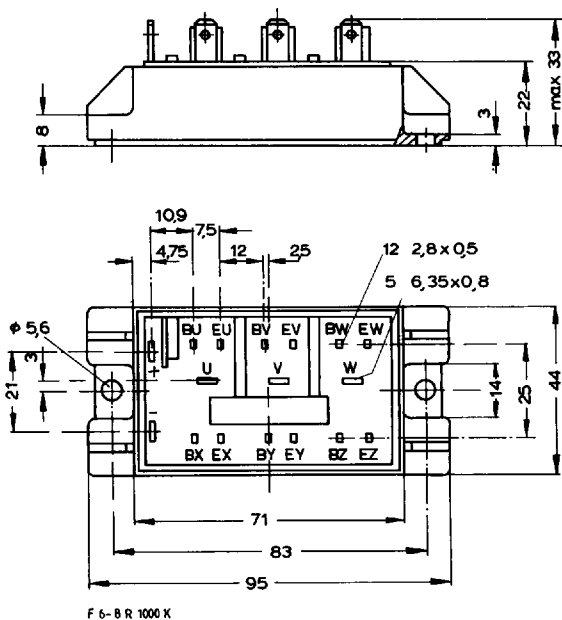
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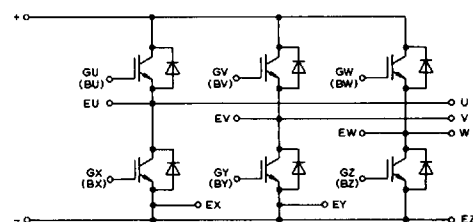
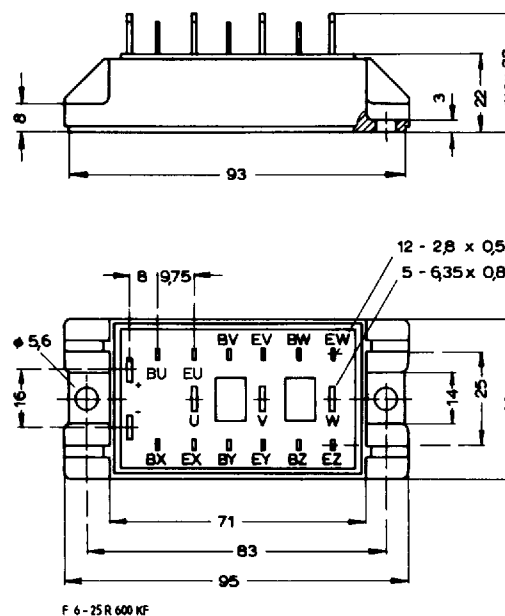
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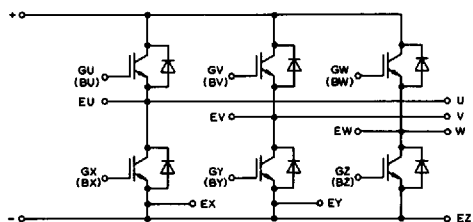
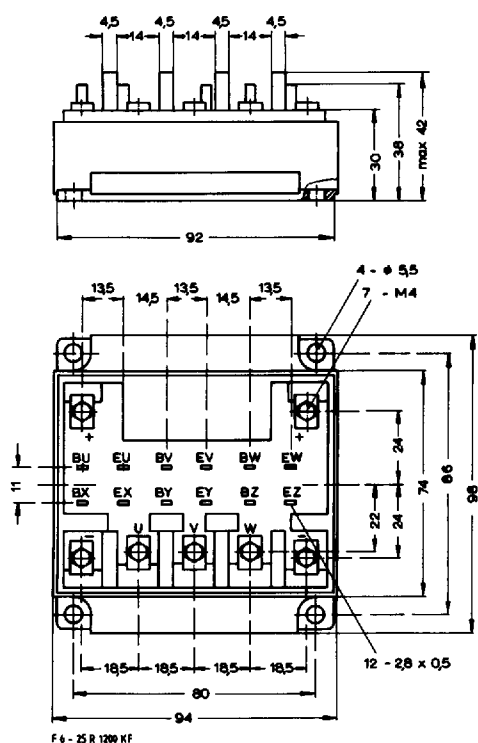
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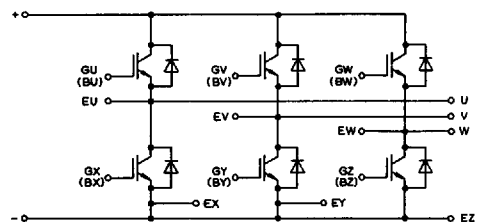
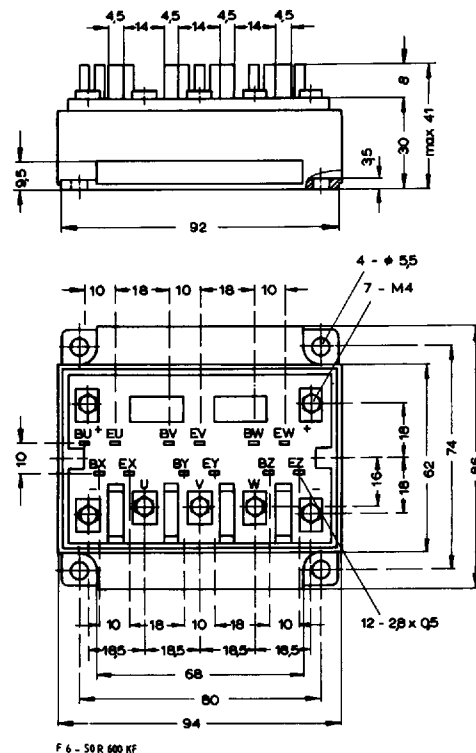
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