

F 6 – 75 R 06 KF

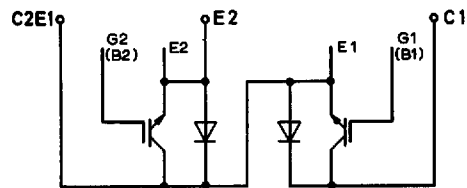
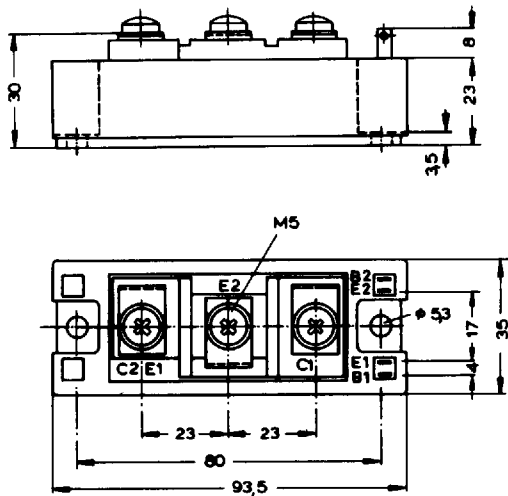
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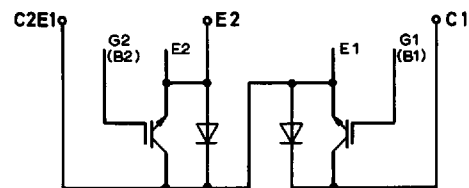
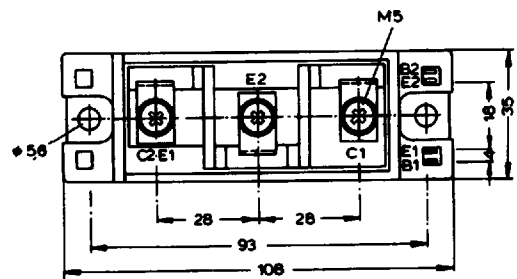
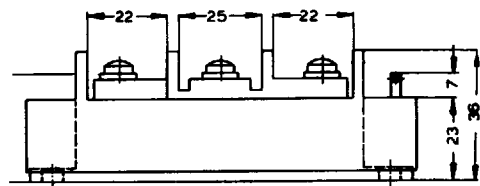
Transistor				Thermische Eigenschaften		Thermal properties	
Elektrische Eigenschaften				R_{thJC}	DC, pro Baustein / per module DC, pro Zweig / per arm	0,104 °C/W 0,625 °C/W	
Höchstzulässige Werte				Höchstzulässige Werte		Maximum rated values	
V_{CES}						600	V
I_C				t_{vjmax}		150	°C
I_{CRM}	$t_p = 1\text{ ms}$			t_{vjop}		-40 / +150	°C
P_{tot}	$t_C = 25^\circ\text{C}$			t_{stg}		-40 / +125	°C
V_{GE}				Inversdiode		Inverse diode	
V_{EG}				Elektrische Eigenschaften		Electrical properties	
Charakteristische Werte				Höchstzulässige Werte		Maximum rated values	
$V_{CE\ sat}$	$i_{CM} = 75\text{ A},$ $i_{CM} = 75\text{ A},$	$v_{GE} = 15\text{ V},$ $v_{GE} = 15\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$	$I_F(\text{max})$		75	A
$v_{GE\ (th)}$	$v_{CE} = 5\text{ V},$ $v_{CE} = 5\text{ V},$	$i_C = 75\text{ mA},$ $i_C = 75\text{ mA},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$	I_{FRM}	$t_p = 1\text{ ms}$	150	A
C_{GE}	$v_{CE} = 10\text{ V},$ $f_o = 1\text{ MHz},$	$v_{GE} = 0\text{ V},$ $t_{vj} = 25^\circ\text{C}$	typ. 6 nF	Charakteristische Werte		Characteristic values	
i_{CES}	$v_{CE} = 600\text{ V},$ $v_{CE} = 600\text{ V},$	$v_{GE} = 0\text{ V},$ $v_{GE} = 0\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 125^\circ\text{C}$	v_F	$i_F = 75\text{ A}, v_{GE} = 0\text{ V}, t_{vj} = 25^\circ\text{C}$ $i_F = 75\text{ A}, v_{GE} = 0\text{ V}, t_{vj} = 25^\circ\text{C}$	typ. 1,8 max. 2,5	V
i_{GES}	$v_{GE} = 20\text{ V},$ $v_{GE} = 20\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$	typ. 50 nA max. 500 nA	I_{RM}	$i_{FM} = 75\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$ $v_{EG} = 10\text{ V}, t_{vj} = 25^\circ\text{C}$	typ. 10	A
i_{EGS}	$v_{EG} = 20\text{ V},$ $v_{EG} = 20\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$	typ. 50 nA max. 500 nA	Q_r	$i_{FM} = 75\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$ $v_{EG} = 10\text{ V}, t_{vj} = 125^\circ\text{C}$	typ. 18.	A
t_{on}	$i_{CM} = 75\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 300\text{ V},$ $R_G = 33\ \Omega,$	$t_{vj} = 25^\circ\text{C}$		$v_{EG} = 10\text{ V}, t_{vj} = 25^\circ\text{C}$ $i_{FM} = 75\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$	typ. 1,5	μAs
t_s	$i_{CM} = 75\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 300\text{ V},$ $v_{LR} = 15\text{ V},$	$t_{vj} = 125^\circ\text{C}$		$v_{EG} = 10\text{ V}, t_{vj} = 125^\circ\text{C}$	typ. 5	μAs
t_f	$i_{CM} = 75\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 300\text{ V},$ $v_{LR} = 15\text{ V},$		Thermische Eigenschaften		Thermal properties	
	$R_G = 33\ \Omega,$ $i_{CM} = 75\text{ A},$	$t_{vj} = 25^\circ\text{C}$ $v_{CE} = 300\text{ V},$	typ. 0,4 μs	R_{thJC}	DC, pro Baustein / per module DC, pro Zweig / per arm	0,21 °C/W 1,25 °C/W	
	$v_{LF} = 15\text{ V},$ $R_G = 33\ \Omega,$	$v_{LR} = 15\text{ V},$ $t_{vj} = 25^\circ\text{C}$	typ. 0,5 μs			125	°C
	$i_{CM} = 75\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 300\text{ V},$ $v_{LR} = 15\text{ V},$	typ. 0,15 μs	t_{vjmax}		-40 / +125	°C
	$R_G = 33\ \Omega,$ $v_{LF} = 15\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $v_{LR} = 15\text{ V},$	typ. 0,25 μs	t_{vjop}		-40 / +125	°C
	$i_{CM} = 75\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 300\text{ V},$ $v_{LR} = 15\text{ V},$		t_{stg}			
	$R_G = 33\ \Omega,$ $t_{vj} = 125^\circ\text{C}$	$t_{vj} = 125^\circ\text{C}$		Innere Isolation		Internal insulation	
Bedingungen für den Kurzschlußschutz				Isoliermaterial: AlN		Insulating material: AlN	
				V_{ISOL}	RMS	2,5	kV
Conditions for protection against short circuits				Mechanische Eigenschaften		Mechanical properties	
				G		500	g
				M1		3	Nm
				M2		3	Nm
				Maßbild		outline	
				Seite 124, Nr. 10		page 124, no. 10	

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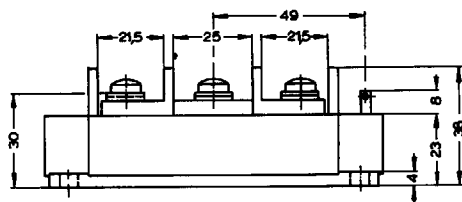
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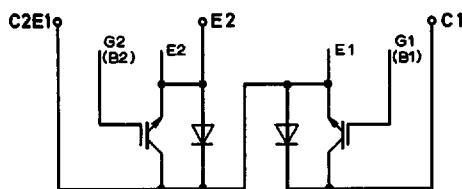
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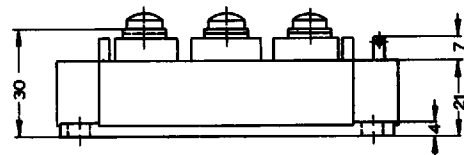


FF 100 R 1000 K

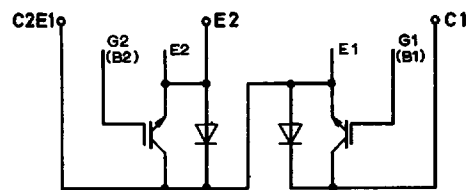


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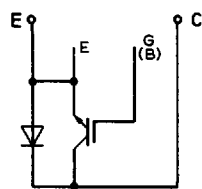
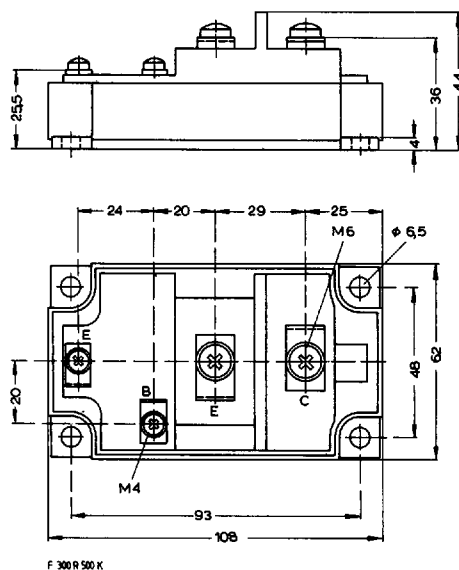
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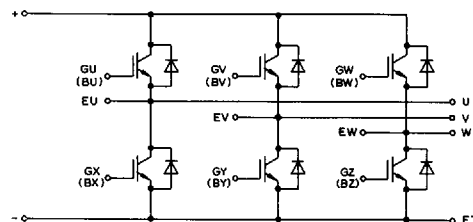
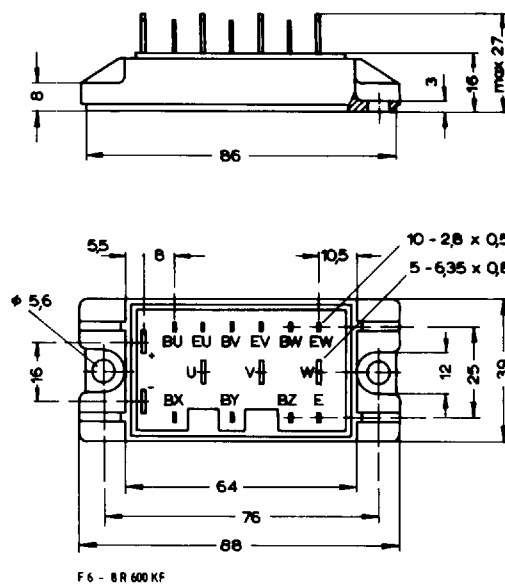
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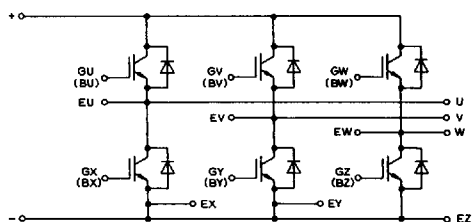
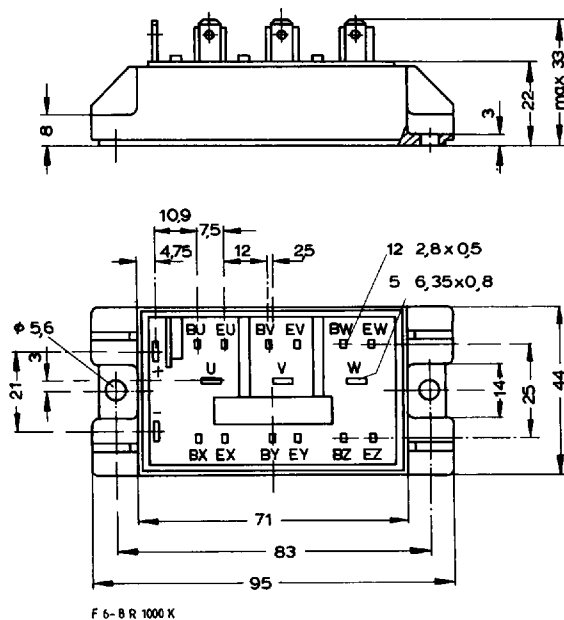
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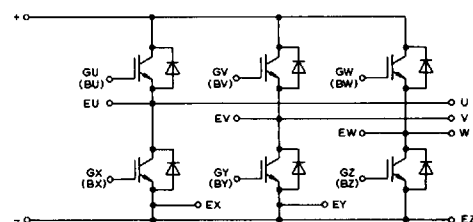
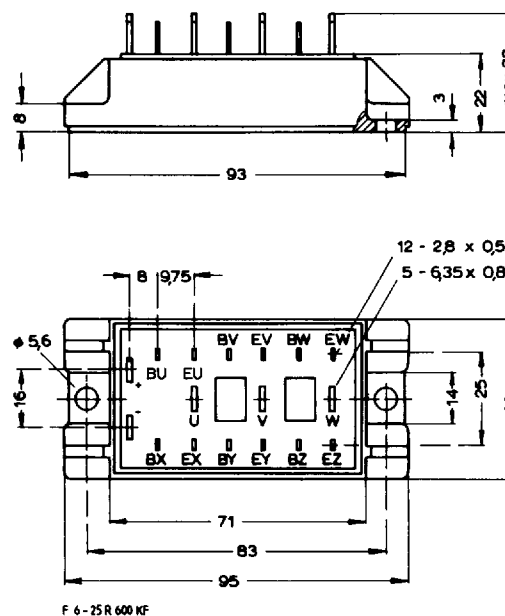
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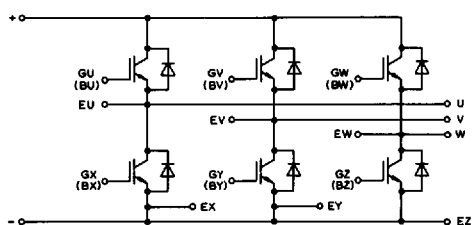
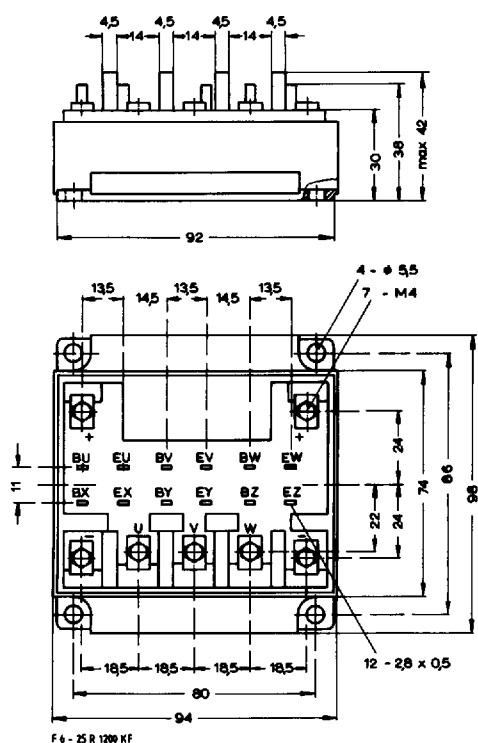
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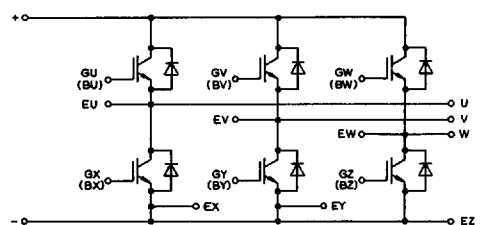
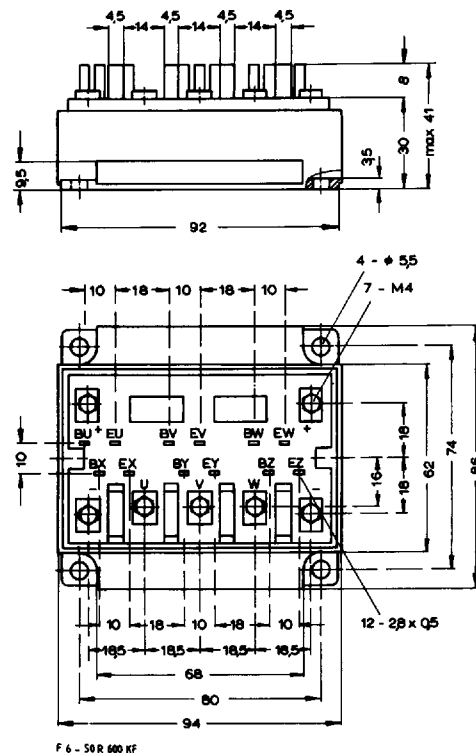
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