# SKMT 92, SKKL 92



SEMIPACK<sup>®</sup> 1

Thyristor / Diode Modules

S	KKL	92
s	кмт	92

#### Features

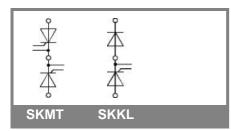
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

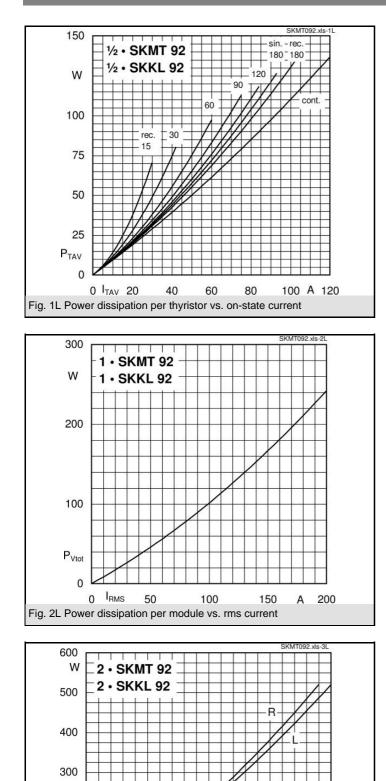
#### **Typical Applications\***

- Line rectifiers for transistorized AC motor controllers (SKKL)
  DC braking of AC motor (SKMT)
- 1) See the assembly instructions

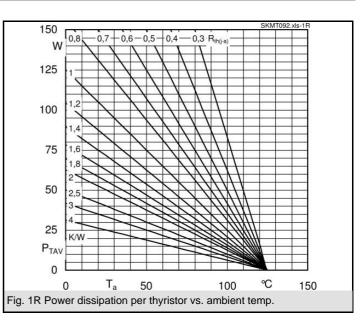
I <sub>TRMS</sub> = 150 A (maximum value for continuous operation)	
I <sub>TAV</sub> = 95 A (sin. 180; T <sub>c</sub> = 85 °C)	

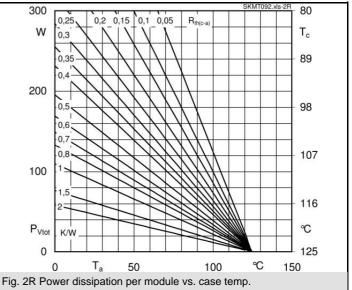
Symbol	Conditions	Values	Units
TAV	sin. 180; T <sub>c</sub> = 85 (100) °C;	95 (68 )	А
D	P3/180; T <sub>a</sub> = 45 °C; B2 / B6	70 / 85	А
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	140 /175	А
RMS	P3/180F; T <sub>a</sub> = 35 °C; W1 / W3	190 / 3 * 135	А
TSM	T <sub>vi</sub> = 25 °C; 10 ms	2000	А
	T <sub>vi</sub> = 125 °C; 10 ms	1750	А
²t	T <sub>vi</sub> = 25 °C; 8,3 10 ms	20000	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	15000	A²s
V <sub>T</sub>	T <sub>vi</sub> = 25 °C; I <sub>T</sub> = 300 A	max. 1,65	V
V <sub>T(TO)</sub>	T <sub>vi</sub> = 125 °C	max. 0,9	V
T	T <sub>vi</sub> = 125 °C	max. 2	mΩ
<sub>DD</sub> ; I <sub>RD</sub>	$T_{vj} = 125 \text{ °C}; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 20	mA
gd	T <sub>vj</sub> = 25 °C; I <sub>G</sub> = 1 A; di <sub>G</sub> /dt = 1 A/μs	1	μs
gr	$V_{\rm D} = 0,67 * V_{\rm DRM}$	2	μs
(di/dt) <sub>cr</sub>	T <sub>vi</sub> = 125 °C	max. 150	A/µs
(dv/dt) <sub>cr</sub>	T <sub>vi</sub> = 125 °C	max. 1000	V/µs
q	T <sub>vi</sub> = 125 °C ,	100	μs
Н	T <sub>vi</sub> = 25 °C; typ. / max.	150 / 250	mA
L	$T_{vj}$ = 25 °C; $R_G$ = 33 $\Omega$ ; typ. / max.	300 / 600	mA
V <sub>GT</sub>	T <sub>vi</sub> = 25 °C; d.c.	min. 3	V
GT	T <sub>vi</sub> = 25 °C; d.c.	min. 150	mA
√ <sub>GD</sub>	T <sub>vj</sub> = 125 °C; d.c.	max. 0,25	V
GD	T <sub>vj</sub> = 125 °C; d.c.	max. 6	mA
R <sub>th(j-c)</sub>	cont.; per thyristor / per module	0,28 / 0,14	K/W
R <sub>th(j-c)</sub>	sin. 180; per thyristor / per module	0,3 / 0,15	K/W
R <sub>th(j-c)</sub>	rec. 120; per thyristor / per module	0,32 / 0,16	K/W
R <sub>th(c-s)</sub>	per thyristor / per module	0,2 / 0,1	K/W
Г <sub>vi</sub> `́		- 40 + 125	°C
Г <sub>stg</sub>		- 40 + 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M <sub>s</sub>	to heatsink	5 ± 15 % <sup>1)</sup>	Nm
Mt	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case	SKMT	A 72	
	SKKL	A 59	

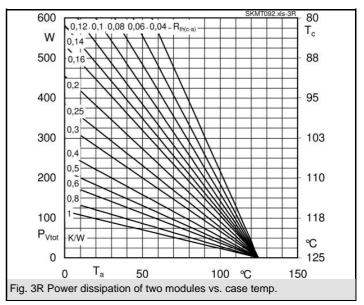




100







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A 200

150

200

100

P<sub>Vtot</sub>

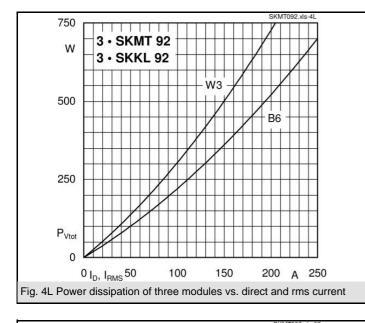
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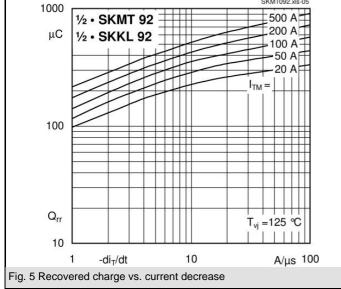
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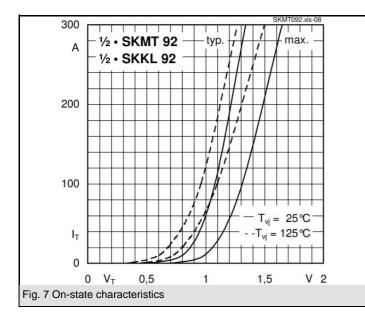
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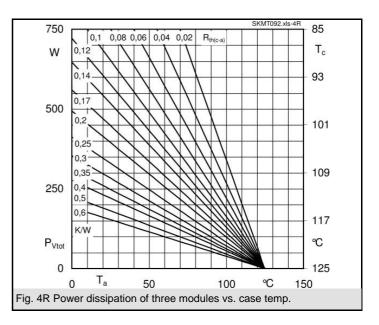
Fig. 3L Power dissipation of two modules vs. direct current

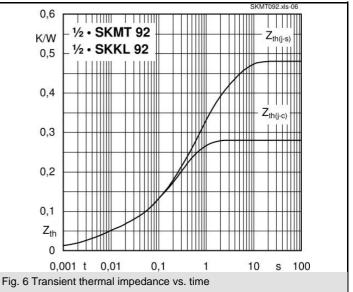
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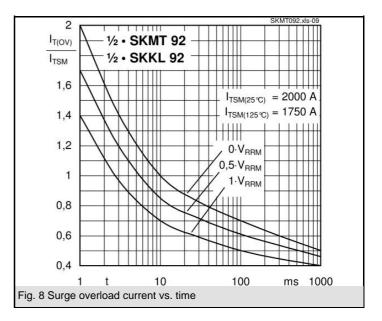


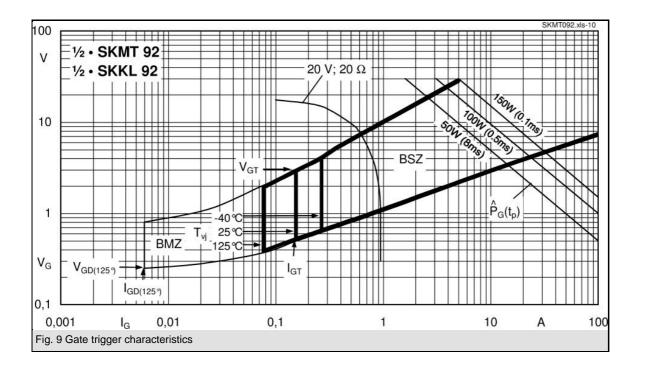


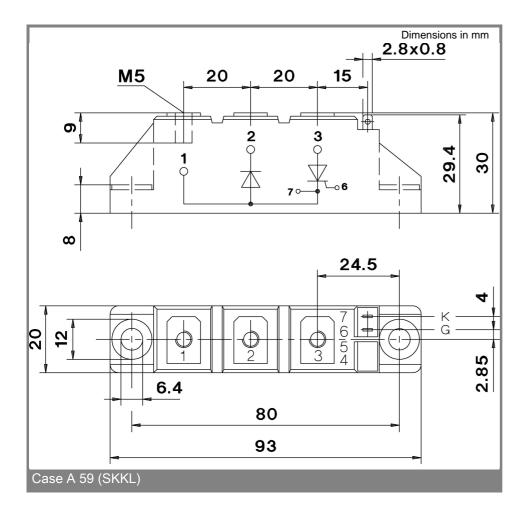


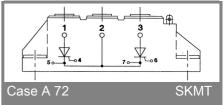












\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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