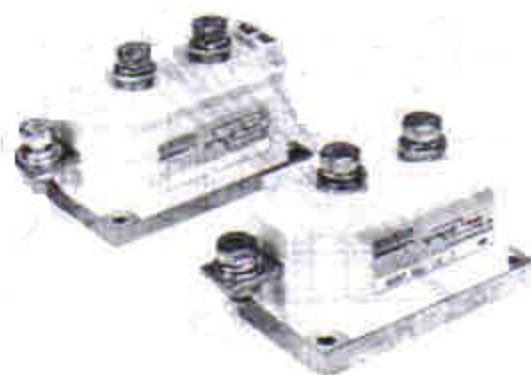


V <sub>DRM</sub>	(dv/dt) <sub>cr</sub>	I <sub>TRMS</sub> (maximum values for continuous operation)			
		240 A	270 A	240 A	270 A
I <sub>TAV</sub> (sin. 180; T <sub>case</sub> = ...)					
V	V/μs	150 A (85 °C)	172 A (81 °C)	150 A (85 °C)	172 A (81 °C)
		<b>SKKT</b>	<b>SKKT</b>	<b>SKKH</b>	<b>SKKH</b>
800	500	131/08 D	161/08 D	131/08 D	161/08 D
1200	500	131/12 D	161/12 D	131/12 D	161/12 D
	1000	131/12 E	161/12 E	131/12 E	161/12 E
1400	1000	131/14 E	161/14 E	131/14 E	161/14 E
	1000	131/16 E	161/16 E	131/16 E	161/16 E

## SEMIPACK® 3 Thyristor/ Diode Modules

**SKKT 131    SKKH 131**  
**SKKT 161    SKKH 161**



SKKT

SKKH

Symbol	Conditions	SKKT 131 SKKH 131	SKKT 161 SKKH 161
I <sub>TRM</sub>	sin. 180; T <sub>case</sub> = 81 °C 85 °C 92 °C	- 150 A 130 A	172 A 160 A -
I <sub>B</sub>	B2/B6   T <sub>amb</sub> = 35 °C; P 16/170 F P 16/200 F P 16/300 F	295 A/375 A 300 A/380 A - /390 A	325 A/410 A 1330A/415 A - /425 A
I <sub>TRM</sub>	W1/W3   T <sub>amb</sub> = 35 °C; P 16/170 F P 16/200 F P 16/300 F	340A/3x290A 340A/3x295A - /3x300 A	380A/3x310A 385A/3x315A - /3x325 A
I <sub>TRM</sub>	T <sub>vj</sub> = 25 °C T <sub>vj</sub> = 130 °C	4700 A 4000 A	5400 A 5000 A
I <sub>TRM</sub>	T <sub>vj</sub> = 25 °C T <sub>vj</sub> = 130 °C	110 000 A <sup>2</sup> s 80 000 A <sup>2</sup> s	145 000 A <sup>2</sup> s 125 000 A <sup>2</sup> s
t <sub>tr</sub>	T <sub>vj</sub> = 25 °C; I <sub>G</sub> = 1 A; di <sub>G</sub> /dt = 1 A/μs		1 μs 2 μs
(di/dt) <sub>cr</sub>	T <sub>vj</sub> = 130 °C		100 A/μs
t <sub>tr</sub>	T <sub>vj</sub> = 130 °C		typ. 50 ... 150 μs
I <sub>tr</sub>	T <sub>vj</sub> = 25 °C		typ. 150 mA; max. 250 mA
I <sub>tr</sub>	T <sub>vj</sub> = 25 °C; R <sub>G</sub> = 33 Ω		typ. 300 mA; max. 600 mA
V <sub>T</sub>	T <sub>vj</sub> = 25 °C; I <sub>T</sub> = 500 A	max. 1,7 V	max. 1,55 V
V <sub>TRM</sub>	T <sub>vj</sub> = 130 °C	1 V	1 V
r <sub>tr</sub>	T <sub>vj</sub> = 130 °C	1,4 mΩ	1,0 mΩ
I <sub>TRM</sub> ; I <sub>TRM</sub>	T <sub>vj</sub> = 130 °C; V <sub>DD</sub> = V <sub>DRM</sub> ; V <sub>RD</sub> = V <sub>RRM</sub>	max. 50 mA	max. 50 mA
V <sub>TR</sub>	T <sub>vj</sub> = 25 °C; d. c.		3 V
I <sub>TR</sub>	T <sub>vj</sub> = 25 °C; d. c.		200 mA
V <sub>TR</sub>	T <sub>vj</sub> = 130 °C; d. c.		0,25 V
I <sub>TR</sub>	T <sub>vj</sub> = 130 °C; d. c.		10 mA
R <sub>thc</sub>	cont. } sin. 180 } per thyristor/per module rec. 120 }		0,19/0,09 °C/W 0,20/0,10 °C/W 0,22/0,11 °C/W 0,06/0,03 °C/W
T <sub>vj</sub>			-40 ... +130 °C
T <sub>stg</sub>			-40 ... +130 °C
V <sub>act</sub>	a. c. 50 Hz; r. m. s.; 1 s/1 min		3000 V ~ /2500 V ~ <sup>1)</sup>
M <sub>1</sub>	Case to heatsink	SI units/	5 Nm/44 lb. in. ± 15 % <sup>2)</sup>
M <sub>2</sub>	Busbars to terminals	US units	9 Nm/80 lb. in. ± 15 % <sup>3)</sup>
a			5 · 9,81 m/s <sup>2</sup>
w	approx.		820 g
Case	→ page B 1 - 60	A 13 (SKKT 131) A 14 (SKKH 131)	A 13 (SKKT 161) A 14 (SKKH 161)

### Features

- Heat transfer through ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- UL recognized, file no. 63 532

### Typical Applications

- DC motor control (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)

<sup>1)</sup> Internal insulation: beryllium oxide · Observe the warning on page B 1 - 2.

<sup>2)</sup> See the assembly instructions

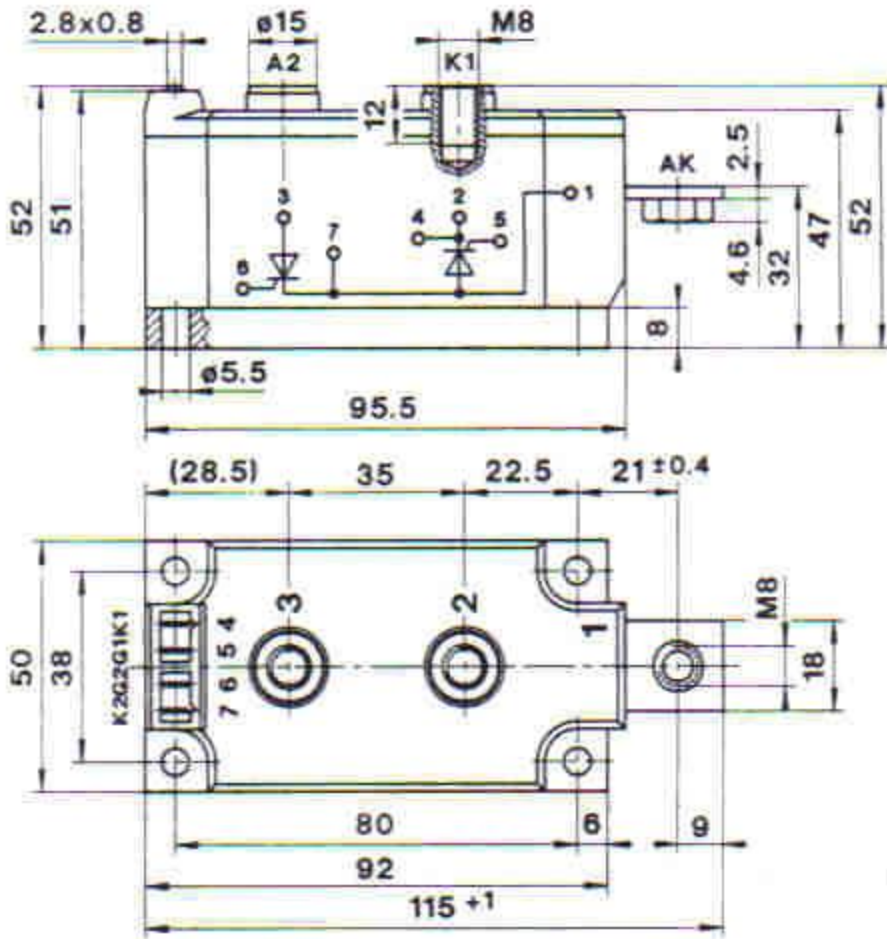
<sup>3)</sup> The screws must be lubricated



**SKKT 131, SKKT 161**

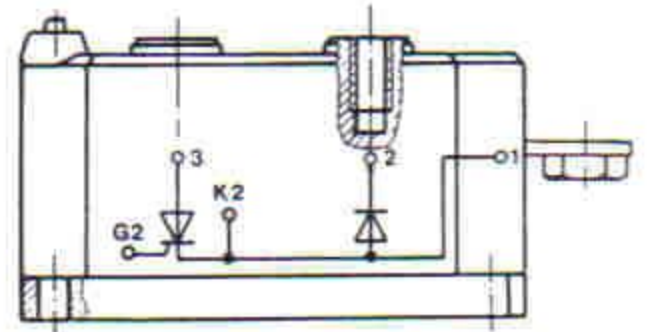
Case A 13

SEMIPACK 3 UL recognized, file no. E 63 532



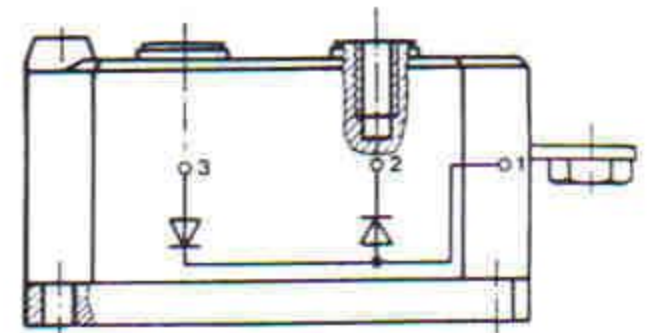
**SKKL 131, SKKL 161**

Case A 15



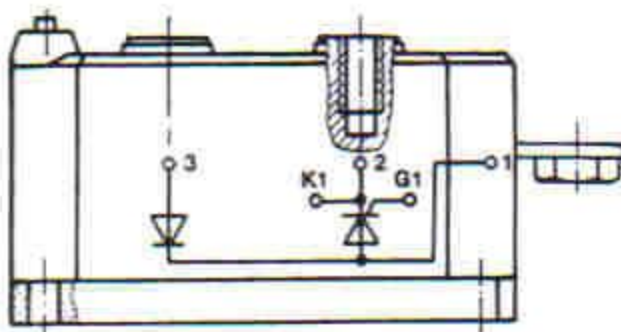
**SKKD 201**

Case A 16



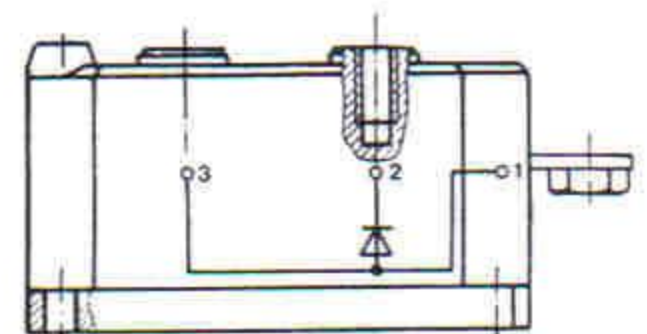
**SKKH 131, SKKH 161**

Case A 14



**SKKE 201**

Case A 17



Dimensions in mm