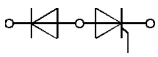
V_{RSM} V	V_{RRM} V_{DRM} V	I_d (P 3/120, T_{amb} = 45 °C) 70 A
1300	1200	**SKNH 56/12 E**
1500	1400	**SKNH 56/14 E**
1700	1600	**SKNH 56/16 E**
1900	1800	**SKNH 56/18 E**

SEMIPACK® 1
Modules with Thyristor and Free-Wheeling Diode

SKNH 56
SKNH 91 [1)]

Symbol	Conditions	SKNH 56	Units
I_{TAV}	T_{case} = 85 °C	50	A
I_{TRMS}		max. 95	A
I_{TSM}	T_{vj} = 25 °C	1 500	A
	T_{vj} = 125 °C	1 250	A
i^2t	T_{vj} = 25 °C	11 000	A^2s
	T_{vj} = 125 °C	8 000	A^2s
t_{gd}	T_{vj} = 25 °C I_G = 1 A		
	di_G/dt = 1 A/µs	1	µs
t_{gr}	$V_D = 0{,}67 \cdot V_{DRM}$	2	µs
$(di/dt)_{cr}$	T_{vj} = 125 °C	100	A/µs
$(dv/dt)_{cr}$	T_{vj} = 125 °C	1000	V/µs
t_q	T_{vj} = 125 °C; typ.	50 ... 150	µs
I_H	T_{vj} = 25 °C; max.	250	mA
I_L	T_{vj} = 25 °C; R_G = 33 Ω; max.	600	mA
V_T	T_{vj} = 25 °C; I_T = 200 A	1,65	V
$V_{T(TO)}$	T_{vj} = 125 °C	0,9	V
r_T	T_{vj} = 125 °C	3,5	mΩ
I_{DD}; I_{RD}	T_{vj} = 125 °C; $V_{RD} = V_{RRM}$		
	$V_{DD} = V_{DRM}$	15	mA
V_{GT}	T_{vj} = 25 °C; d.c.	3	V
I_{GT}	T_{vj} = 25 °C; d.c.	150	mA
V_{GD}	T_{vj} = 125 °C; d.c.	0,25	V
I_{GD}	T_{vj} = 125 °C; d.c.	6	mA
R_{thjc}	sin. 180; per thyristor/per diode	0,64	°C/W
	sin. 180; per module	0,32	°C/W
R_{thch}	per thyristor/per module	0,2 / 0,1	°C/W
T_{vj}		– 40 ... + 125	°C
T_{stg}		– 40 ... + 125	°C
V_{isol}	a. c. 50 Hz; r.m.s; 1 s/1 min	3600 / 3000	V~
M_1	to heatsink } SI (US) units	5 (44 lb. in.) ± 15 %	Nm
M_2	to terminals } SI (US) units	5 (44 lb. in.) ± 15 %	Nm
a		$5 \cdot 9{,}81$	m/s^2
w	approx.	120	g
Case	→ page B 1 – 95	A 7	

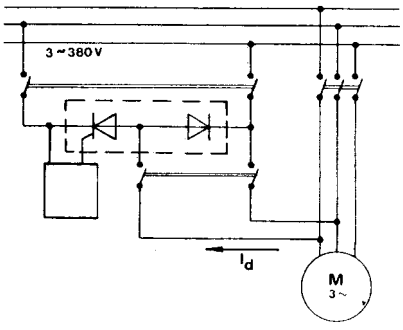
[1)] SKNH 91 available on request, electrical data see page B 1 – 51



SKNH

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

Typical Applications
- Special modules for DC braking of AC induction motors



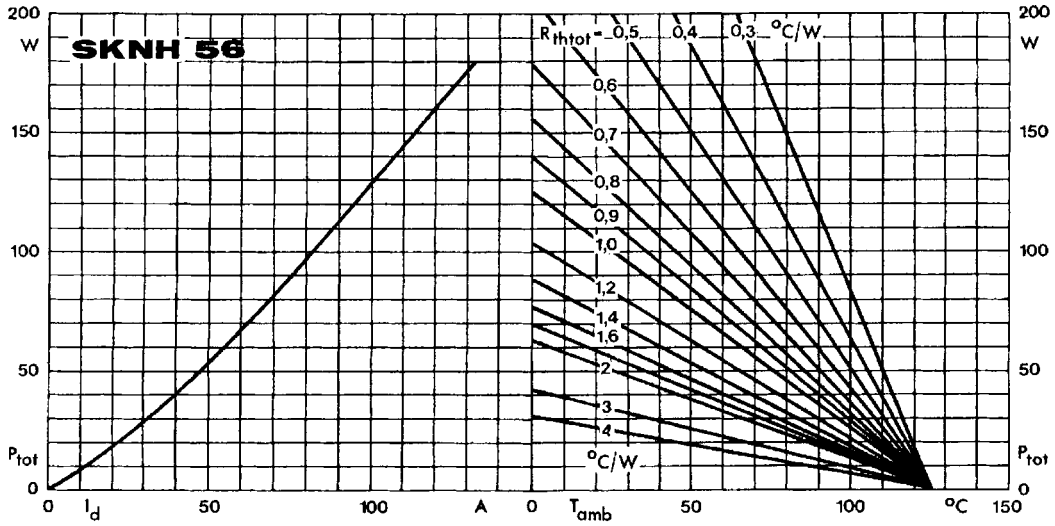


Fig. 17 Power dissipation vs. braking current and ambient temperature

Further diagrams see with type SKKT 56

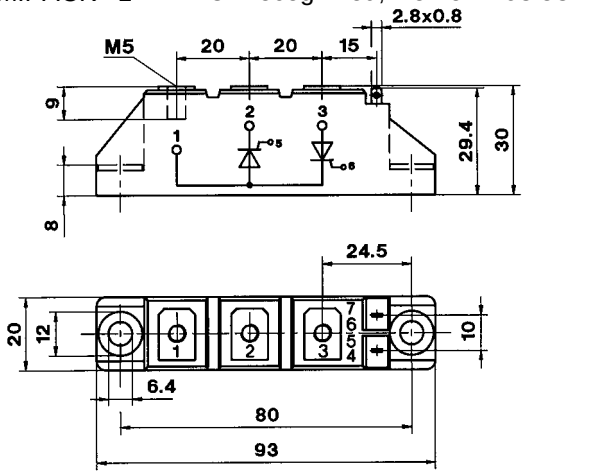
SKKT 19 . . . 105

Case A 5

IEC 192-2: A 77 A
JEDEC: TO-240 AA

SEMIPACK® 1

UL recognized, file no. E 63 532



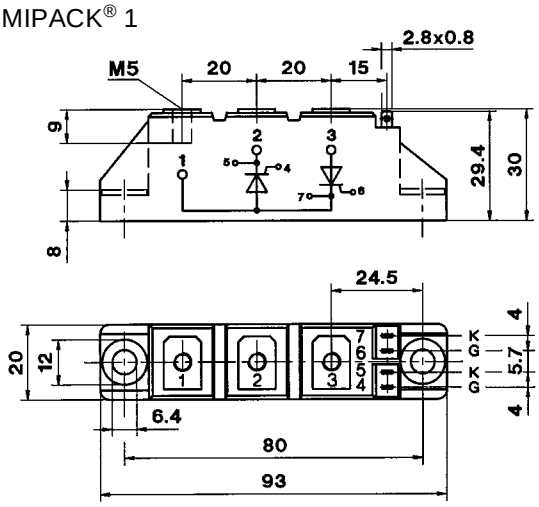
Dimensions in mm

SKKT 20/ . . . 106/

Case A 46

IEC 192-2: A 77 A
JEDEC: TO-240 AA

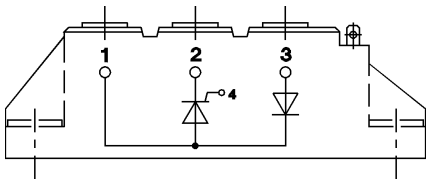
SEMIPACK® 1



Dimensions in mm

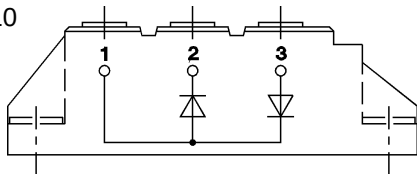
SKKH 26 . . . 105

Case A 6



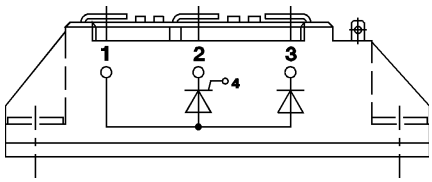
SKKD 26 . . . 100

Case A 10



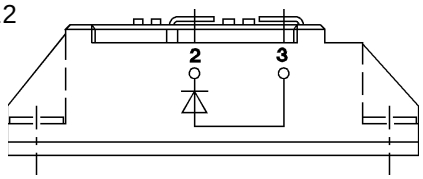
SKNH 56 . . . 91

Case A 7



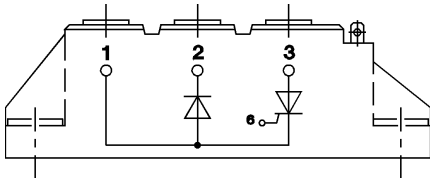
SKKE 81

Case A 12



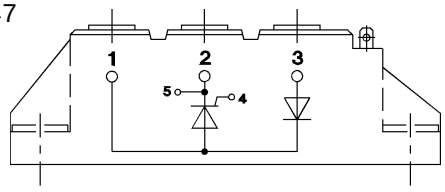
SKKL 56 . . . 105

Case A 9



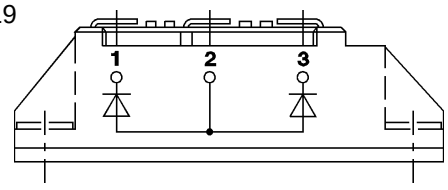
SKKH 27 . . . 106

Case A 47



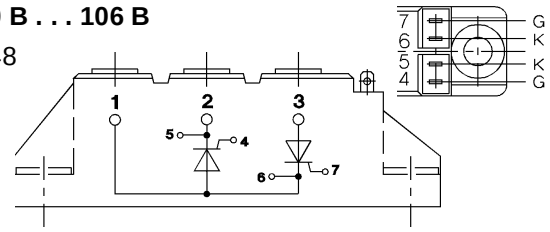
SKND 46 . . . 81

Case A 19



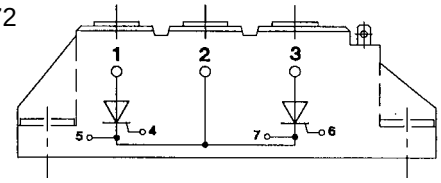
SKKT 20 B . . . 106 B

Case A 48



SKMT 92

Case A 72



SKKL 42 . . . 106

Case A 59