

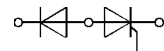
SKNH 56, SKNH 91

V_{RSM}	V_{RRM} V_{DRM}	I_d (P 3/120, $T_{amb} = 45\text{ °C}$)
V	V	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⁾



SKNH

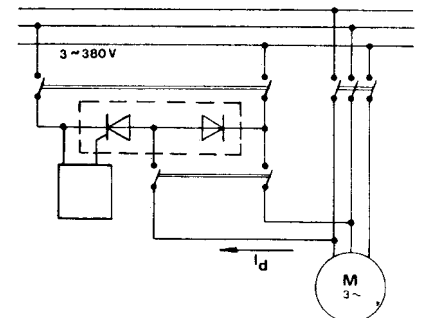
Symbol	Conditions	SKNH 56	Units
I_{TAV}	$T_{case} = 85\text{ °C}$	50	A
I_{TRMS}		max. 95	A
I_{TSM}	$T_{vj} = 25\text{ °C}$	1 500	A
	$T_{vj} = 125\text{ °C}$	1 250	A
i^2t	$T_{vj} = 25\text{ °C}$	11 000	A^2s
	$T_{vj} = 125\text{ °C}$	8 000	A^2s
t_{gd}	$T_{vj} = 25\text{ °C}$ $I_G = 1\text{ A}$ $di_G/dt = 1\text{ A}/\mu s$	1	μs
t_{gr}	$V_D = 0,67 \cdot V_{DRM}$	2	μs
$(di/dt)_{cr}$	$T_{vj} = 125\text{ °C}$	100	$A/\mu s$
$(dv/dt)_{cr}$	$T_{vj} = 125\text{ °C}$	1000	$V/\mu s$
t_q	$T_{vj} = 125\text{ °C}$; typ.	50 ... 150	μs
I_H	$T_{vj} = 25\text{ °C}$; max.	250	mA
I_L	$T_{vj} = 25\text{ °C}$; $R_G = 33\ \Omega$; max.	600	mA
V_T	$T_{vj} = 25\text{ °C}$; $I_T = 200\text{ A}$	1,65	V
$V_{T(TO)}$	$T_{vj} = 125\text{ °C}$	0,9	V
r_T	$T_{vj} = 125\text{ °C}$	3,5	$m\Omega$
I_{DD} ; I_{RD}	$T_{vj} = 125\text{ °C}$; $V_{RD} = V_{RRM}$ $V_{DD} = V_{DRM}$	15	mA
V_{GT}	$T_{vj} = 25\text{ °C}$; d.c.	3	V
I_{GT}	$T_{vj} = 25\text{ °C}$; d.c.	150	mA
V_{GD}	$T_{vj} = 125\text{ °C}$; d.c.	0,25	V
I_{GD}	$T_{vj} = 125\text{ °C}$; d.c.	6	mA
R_{thjc}	sin. 180; per thyristor/per diode	0,60	$^{\circ}C/W$
	sin. 180; per module	0,30	$^{\circ}C/W$
R_{thch}	per thyristor/per module	0,2 / 0,1	$^{\circ}C/W$
T_{vj}		- 40 ... + 125	$^{\circ}C$
T_{stg}		- 40 ... + 125	$^{\circ}C$
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.) $\pm 15\%$	Nm
M_2		to terminals } SI (US) units	5 (44 lb. in.) $\pm 15\%$
a		5 - 9,81	m/s^2
w	approx.	120	g
Case	→ page B 1 – 95	A 7	

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



¹⁾ SKNH 91 available on request, electrical data see data sheet SKKH 91

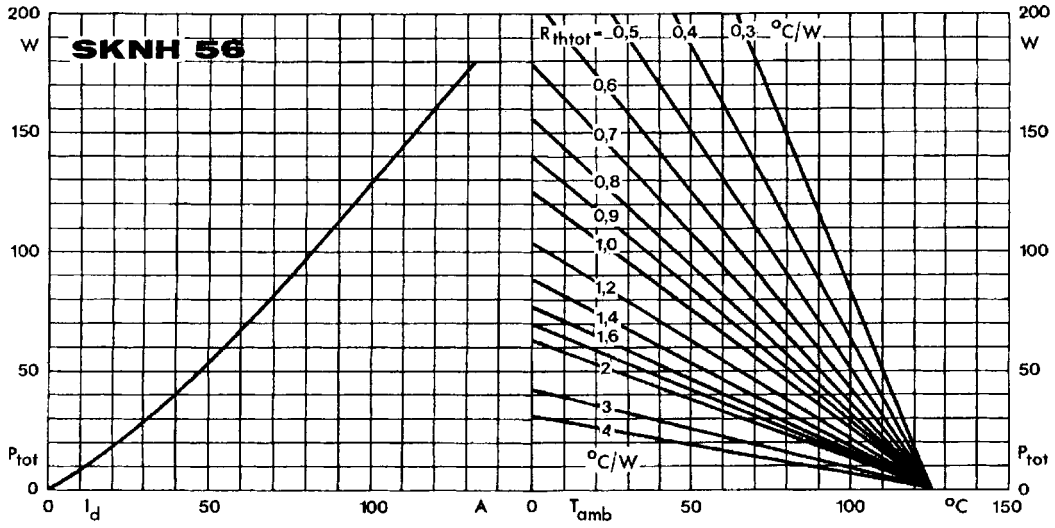


Fig. 17 Power dissipation vs. braking current and ambient temperature

Further diagrams see with type SKKT 56

SKKT 19 ... 105

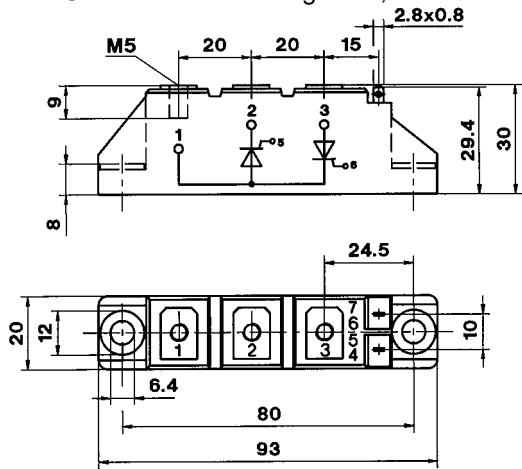
Case A 5

IEC 192-2: A 77 A

JEDEC: TO-240 AA

SEMIPACK® 1

UL recognized, file no. E 63 532



Dimensions in mm

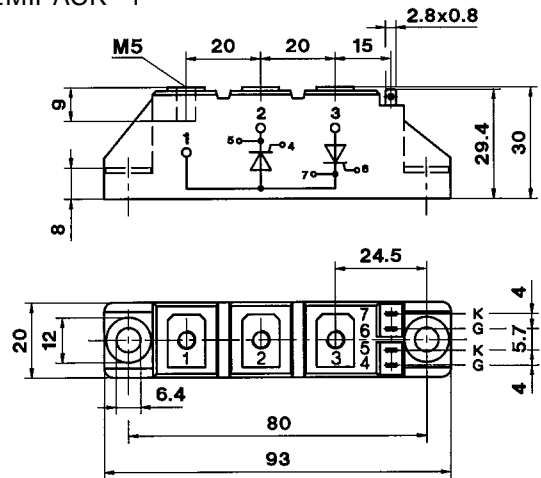
SKKT 20/ ... 106/

Case A 46

IEC 192-2: A 77 A

JEDEC: TO-240 AA

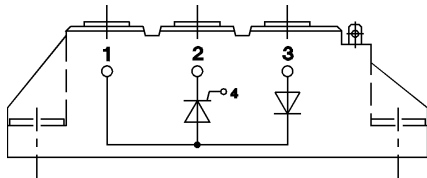
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Dimensions in mm

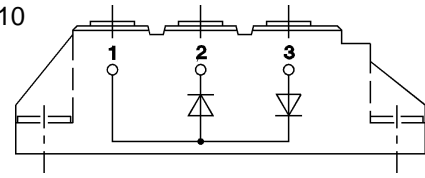
SKKH 26 ... 105

Case A 6



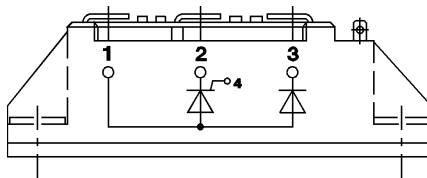
SKKD 26 ... 100

Case A 10



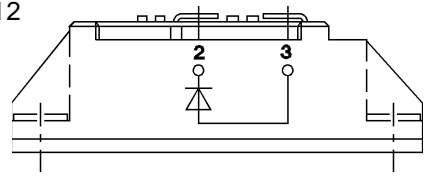
SKNH 56 ... 91

Case A 7



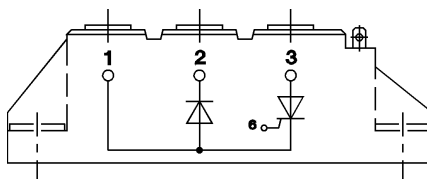
SKKE 81

Case A 12



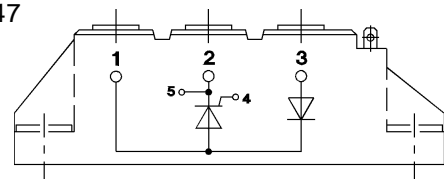
SKKL 56 ... 105

Case A 9



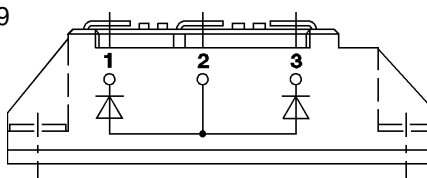
SKKH 27 ... 106

Case A 47



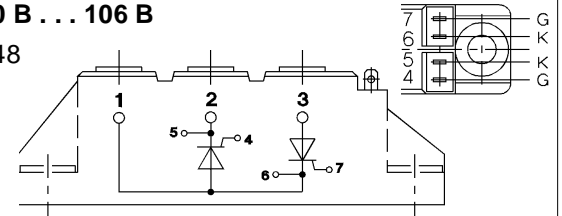
SKND 46 ... 81

Case A 19



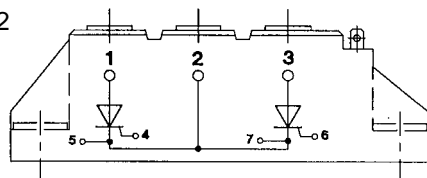
SKKT 20 B ... 106 B

Case A 48



SKMT 92

Case A 72



SKKL 42 ... 106

Case A 59

