SKNH 56



SEMIPACK[®] 1

Modules with Thyristor and Free-Wheeling Diode

SKNH 56

Features

- Heat transfer through ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532
- Electrical data see also data
- sheet SKKH 57

Typical Applications

• Special modules for DC braking of AC induction motors

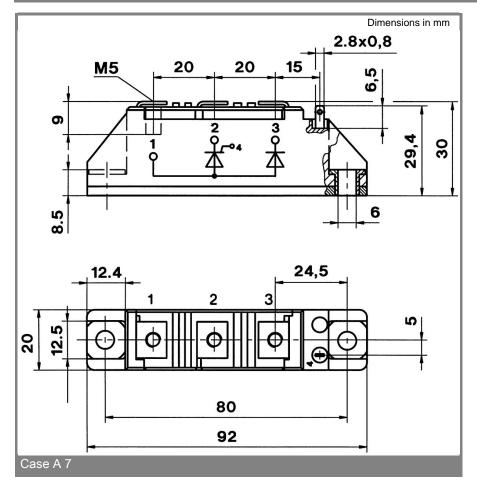
V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 95 A (maximum value for continuous operation)		
V	V	I _{TAV} = 50 A (sin. 180; T _c = 85 °C)		
1300	1200	SKNH 56/12E		
1500	1400	SKNH 56/14E		
1700	1600	SKNH 56/16E		
1900	1800	SKNH 56/18E		

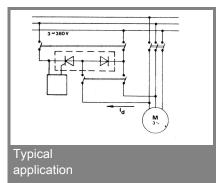
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 85 (100) °C	50 (35)	А
I _D	P3/120; T _a = 45 °C;	70	А
I _{TSM}	T _{vi} = 25 °C; 10 ms	1500	Α
1011	T _{vi} = 125 °C; 10 ms	1250	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	11000	A²s
	T _{vi} = 125 °C; 8,3 10 ms	8000	A²s
V _T	T _{vi} = 25 °C; I _T = 200 A	max. 1,65	V
V _{T(TO)}	T _{vj} = 125 °C	max. 0,9	V
r _T	T _{vi} = 125 °C	max. 3,5	mΩ
I _{DD} ; I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 15	mA
t _{gd}	T _{vj} = 25 °C; I _G = 1 A; di _G /dt = 1 A/µs	1	μs
t _{gr}	V _D = 0,67 * V _{DRM}	2	μs
(di/dt) _{cr}	T _{vi} = 125 °C	max. 100	A/µs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 1000	V/µs
t _q	T _{vi} = 125 °C	50 150	μs
I _H	T _{vj} = 25 °C; typ. / max.	/ 250	mA
I _L	$T_{vj} = 25 \text{ °C}; R_G = 33 \Omega; \text{ typ. / max.}$	/ 600	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	T _{vi} = 25 °C; d.c.	min. 150	mA
V _{GD}	T _{vj} = 125 °C; d.c.	max. 0,25	V
I _{GD}	T _{vj} = 125 °C; d.c.	max. 6	mA
R _{th(j-c)}	cont.; per thyristor / per diode	0,57	K/W
R _{th(j-c)}	sin. 180; per thyristor / per diode	0,6	K/W
R _{th(j-c)}	sin. 180; per module	0,3	K/W
R _{th(c-s)}	per thyristor / per module	0,2 / 0,1	K/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	٧~
M _s	to heatsink	5 ± 15 %	Nm
Mt	to terminals	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	120	g
Case		A 7	



28-08-2003 SCT

SKNH 56





This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

Downloaded from Elcodis.com electronic components distributor