

SEMIPONT® 7

Three Phase Antiparallel Thyristor Module

SKUT 230

Preliminary Data

Features

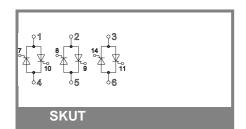
- Robust plastic case with screw terminals
- Heat transfer through aluminium oxide ceramic isolated metal base plate
- Blocking voltage up to 1800V
- High surge current
- · lead free solder
- UL -recognition applied for file no. E 63 532

Typical Applications

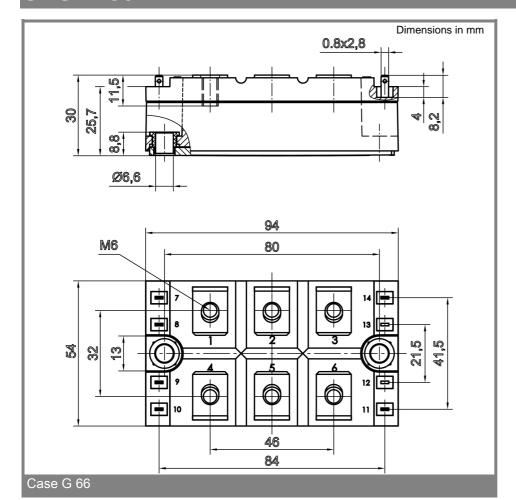
- AC motor soft starter
- Temperature control (e.g. for ovens, chemical processes)
- · Professional light dimming
- 1) available on request

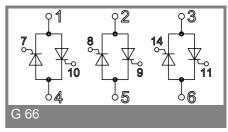
V_{RSM}	V_{RRM}, V_{DRM}	I _{RMS} = 230 A (full conduction)
V	V	(T _c = 80 °C)
900	800	SKUT 230/08
1300	1200	SKUT 230/12
1700	1600	SKUT 230/16
1900	1800	SKUT 230/18 ¹⁾

Symbol	Conditions	Values	Units
I _{RMS}	per arm ; sin. 180° ; T _c = 80 °C	230	Α
TUVIO	per arm ; sin. 180° ; T _c = 85 °C	215	Α
	per arm ; sin. 180°; T _c = 100°C	163	Α
I _{TSM}	T _{vi} = 25 °C ; 10 ms	2200	Α
	T _{vi} = 130 °C ; 10 ms	1950	Α
i²t	T _{vj} = 25 °C ; 8,3 10 ms	24200	A²s
	T _{vj} = 130 °C ; 8,3 10 ms	19000	A²s
V _T	T _{vj} = 25 °C, I _T = 300 A	max. 1,85	V
$V_{T(TO)}$	T _{vi} = 130 °C	0,9	V
r _T	T _{vj} = 130 °C	3,5	mΩ
$I_{DD};I_{RD}$	$T_{vj} = 25 ^{\circ}\text{C}, V_{RD} = V_{RRM}$	max. 1	mA
	T_{vj} = 130 °C, V_{RD} = V_{RRM}	max. 20	mA
t _{gd}	T_{vj} = 25 °C, I_{G} = 1 A; di_{G}/dt = 1 A/ μ s	1	μs
t _{gr}	V _D = 0,67 *V _{DRM}	2	μs
(dv/dt) _{cr}	T _{vi} = 130 °C	1000	V/µs
(di/dt) _{cr}	T _{vj} = 130 °C; f= 50 Hz	150	A/µs
t _q	$T_{vj} = 130 ^{\circ}\text{C}; \text{ typ.}$	100	μs
I _H	T_{vj} = 25 °C; typ. / max.	150 / 300	mA
I_{L}	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	300 / 600	mA
V _{GT}	T_{vj} = 25 °C; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
V_{GD}	T_{vj}^{*} = 130 °C; d.c.	max. 0,25	V
I_{GD}	T _{vj} = 130 °C; d.c.	max. 6	mA
$R_{th(j-c)}$	per thyristor	0,27	K/W
	total	0,045	K/W
$R_{th(c-s)}$	total	0,03	K/W
T_{vj}		- 40 + 130	°C
T _{stg}		- 40 + 130	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M _s	to heatsink	5 ±15%	Nm
M_t	to terminal	5 ±15%	Nm
а		5 * 9,81	m/s²
m	approx.	250	g
Case		G 66	



SKUT 230





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