SEMIKRON

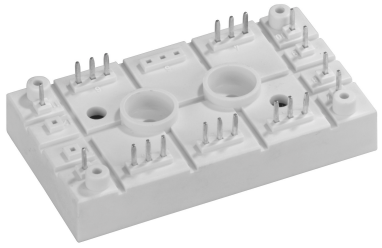
V_{RSM} V	V_{RRM} V_{DRM} V	I_{RMS} (maximum values for continuous operation) (T_h = 85 °C) 105 A
1300	1200	**SKUT 115/12**
1700	1600	**SKUT 115/16**

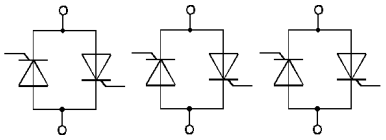
Symbol	Conditions	SKUT 115	Units
I_{RMS}	W3C; sin 180°; T_h = 85 °C	105	A
I_{TSM}	T_{vj} = 25 °C; 10 ms	–	A
	T_{vj} = 125 °C; 10 ms	1 250	A
i^2t	T_{vj} = 25 °C; 8,3...10 ms	–	A^2s
	T_{vj} = 125 °C; 8,3...10 ms	7 800	A^2s
t_{gd}	T_{vj} = 25 °C; I_G = 1 A; di_G/dt = 1 A/µs	1	µs
t_{gr}	V_D = 0,67 V_{DRM}	2	µs
$(dv/dt)_{cr}$	T_{vj} = 125 °C	500	V/µs
$(di/dt)_{cr}$	T_{vj} = 125 °C; f = 50...60 Hz	50	A/µs
t_q	T_{vj} = 125 °C; typ.	150	µs
I_H	T_{vj} = 25 °C; typ. / max	250	mA
I_L	T_{vj} = 25 °C; R_G = 33 Ω; typ. / max.	600	mA
V_T	T_{vj} = 25 °C; I_T = 150 A max.	1,6	V
$V_{T(TO)}$	T_{vj} = 125 °C	0,9	V
r_T	T_{vj} = 125 °C	5	mΩ
I_{DD}; I_{RD}	T_{vj} = 25 °C } V_{DD} = V_{DRM}	1	mA
	T_{vj} = 125 °C } V_{RD} = V_{RRM}	20	mA
V_{GT}	T_{vj} = 25 °C; dc	3	V
I_{GT}	T_{vj} = 25 °C; dc	150	mA
V_{GD}	T_{vj} = 125 °C; dc	0,25	V
I_{GD}	T_{vj} = 125 °C; dc	6	mA
R_{thjh}	sin. 180° per thyristor	0,6	K/W
	per W3C	–	K/W
T_{vj}		– 40 ... + 125	°C
T_{stg}		– 40 ... + 125	°C
T_{solder}	terminals, 10 s	260	°C
V_{isol}	a.c. 50 Hz; r.m.s. 1 s/1 min	3000 / 2500	V~
$M_{1,2}$	mounting torque, SI units	2,5	Nm
w		75	g
Case		G 62	

SEMIPONT™ 5
Three phase antiparallel Thyristor Module

SKUT 115

Preliminary Data





Features

- Compact design
- Two screws mounting
- Heat transfer and isolation through direct copper board (low R_{th})
- Low resistance in Steady- state and high reliability
- High surge currents
- Glass passivated thyristor chips
- Up to 1600 V reverse voltage
- UL recognized, file no. E 63 532
- Temperature sensor available on request (characteristics same as in SEMIPONT 6)

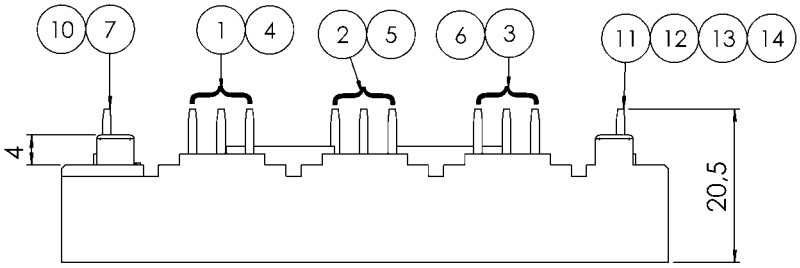
Typical Applications

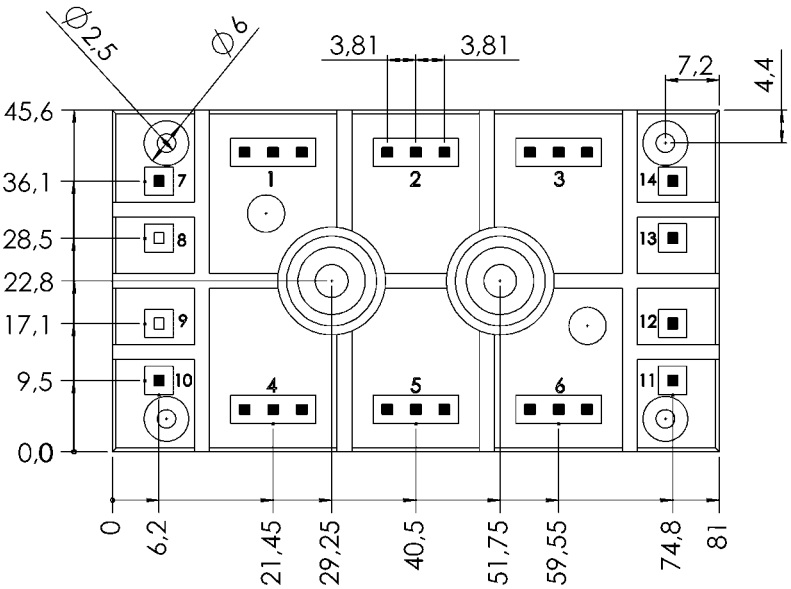
- Soft AC motor starters
- Professional Light control (studios, theatres,..)
- Temperature control (e.g. for ovens, chemical processes)

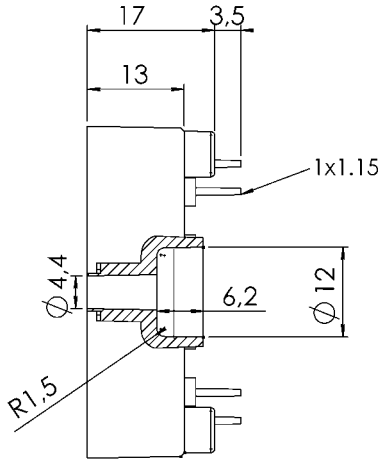
SEMIPONT™ 5

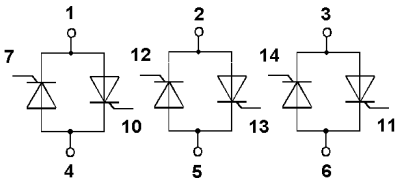
SKUT 115

Case G 62









Dimensions in mm

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