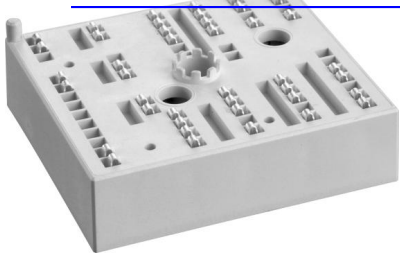


SKiiP 25AC125V10

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MiniSKiiP[®] 2

3-phase bridge inverter

SKiiP 25AC125V10

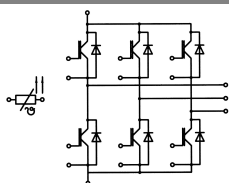
Target Data

Features

- Ultrafast NPT IGBTs
- Robust and soft freewheeling diodes in CAL technology
- Highly reliable spring contacts for electrical connections
- UL recognised file no. E63532

Typical Applications

- Inverter up to 20 kVA
- Typical motor power 11 kW

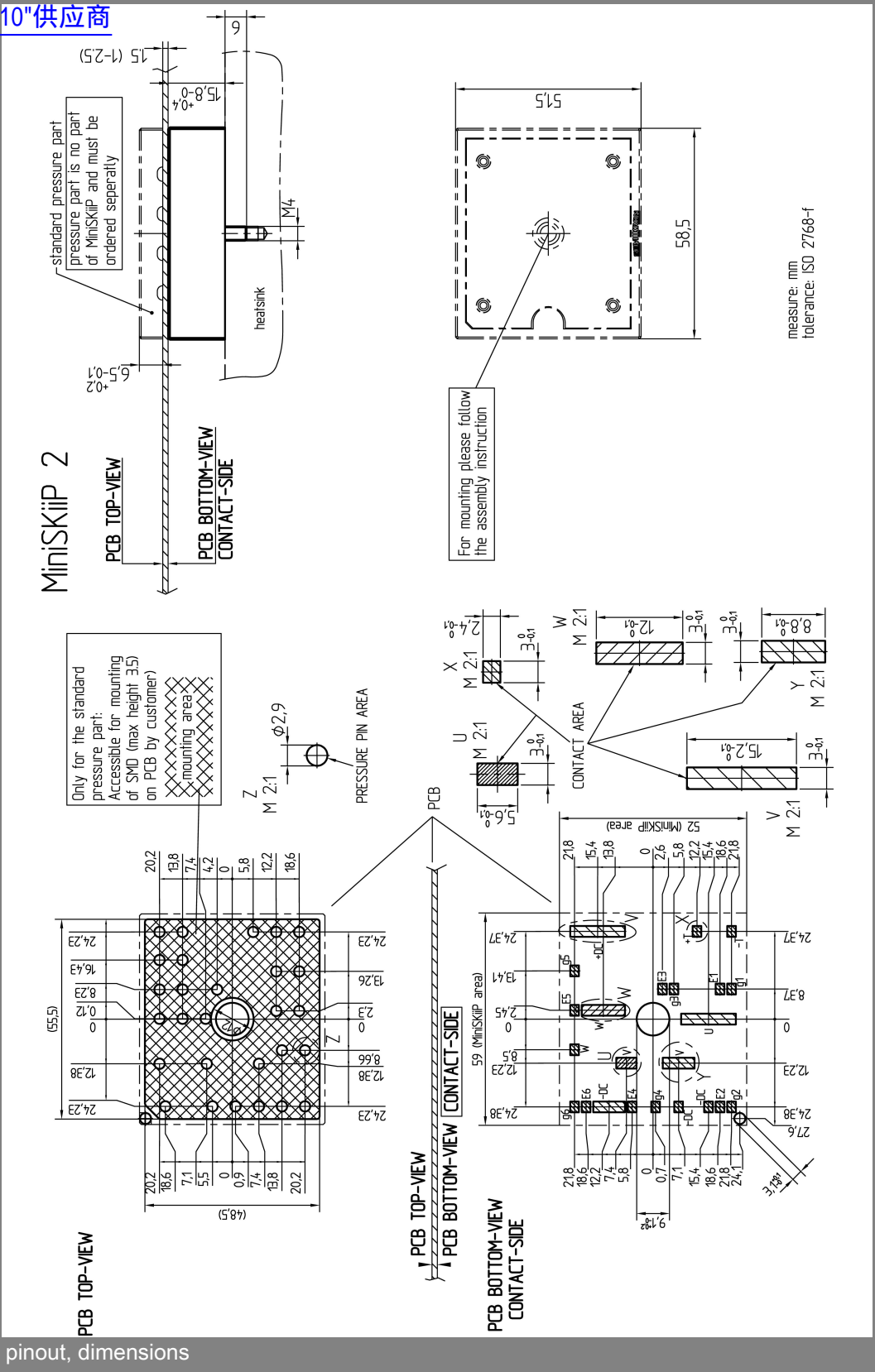
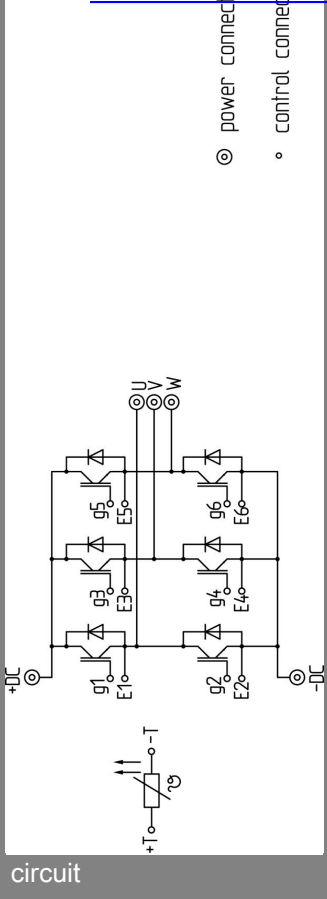


AC

Absolute Maximum Ratings		$T_s = 25\text{ }^\circ\text{C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
IGBT - Inverter			
V_{CES}		1200	V
I_C	$T_s = 25\text{ (70) }^\circ\text{C}$	52 (39)	A
I_{CRM}	$T_s = 25\text{ (70) }^\circ\text{C}$, $t_p \leq 1\text{ ms}$	104 (78)	A
V_{GES}		± 20	V
T_j		- 40 ... + 150	$^\circ\text{C}$
Diode - Inverter			
I_F	$T_s = 25\text{ (70) }^\circ\text{C}$	67 (50)	A
I_{FRM}	$T_s = 25\text{ (70) }^\circ\text{C}$, $t_p \leq 1\text{ ms}$	134 (100)	A
T_j		- 40 ... + 150	$^\circ\text{C}$
I_{tRMS}	per power terminal (20 A / spring)	100	A
T_{stg}	$T_{op} \leq T_{stg}$	- 40 ... + 125	$^\circ\text{C}$
V_{isol}	AC, 1 min.	2500	V

Characteristics		$T_s = 25\text{ }^\circ\text{C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT - Inverter					
V_{CEsat}	$I_C = 50\text{ A}$, $T_j = 25\text{ (125) }^\circ\text{C}$		3,5 (4,1)	3,9 (4,5)	V
$V_{GE(th)}$	$V_{GE} = V_{CE}$, $I_C = 2\text{ mA}$	4,5	5,5	6,5	V
$V_{CE(TO)}$	$T_j = 25\text{ (125) }^\circ\text{C}$		1,5 (1,8)	1,7 (2)	V
r_T	$T_j = 25\text{ (125) }^\circ\text{C}$		40 (46)	44 (50)	m Ω
C_{ies}	$V_{CE} = 25\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$		3,1		nF
C_{oes}	$V_{CE} = 25\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$		0,4		nF
C_{res}	$V_{CE} = 25\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$		0,4		nF
$R_{th(j-s)}$	per IGBT		0,5		K/W
$t_{d(on)}$	under following conditions		100		ns
t_r	$V_{CC} = 600\text{ V}$, $V_{GE} = \pm 15\text{ V}$		60		ns
$t_{d(off)}$	$I_C = 50\text{ A}$, $T_j = 125\text{ }^\circ\text{C}$		400		ns
t_f	$R_{Gon} = R_{Goff} = 12\text{ }^\circ\Omega$		20		ns
E_{on}	inductive load		5,9		mJ
E_{off}			3,1		mJ
Diode - Inverter					
$V_F = V_{EC}$	$I_F = 50\text{ A}$, $T_j = 25\text{ (125) }^\circ\text{C}$		2 (1,8)	2,5 (2,3)	V
$V_{(TO)}$	$T_j = 25\text{ (125) }^\circ\text{C}$		1,3 (1)	1,5 (1,2)	V
r_T	$T_j = 25\text{ (125) }^\circ\text{C}$		14 (16)	20 (22)	m Ω
$R_{th(j-s)}$	per diode		0,7		K/W
I_{RRM}	under following conditions		40		A
Q_{rr}	$I_F = 50\text{ A}$, $V_R = 600\text{ V}$		8		μC
E_{rr}	$V_{GE} = 0\text{ V}$, $T_j = 125\text{ }^\circ\text{C}$		2		mJ
	$di_F/dt = 800\text{ A}/\mu\text{s}$				
Temperature Sensor					
R_{ts}	3 %, $T_r = 25\text{ (100) }^\circ\text{C}$		1000(1670)		Ω
Mechanical Data					
m			65		g
M_s	Mounting torque	2		2,5	Nm

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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

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