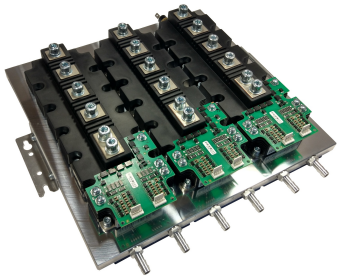
MTH-B6I1000W17MA

OPEN FRAME DEVELOPMENT PLATFORM IGBT POWER STACK

PRELIMINARY TECHNICAL INFORMATION

Features

- High power IGBTs module with NTC
- Integrated liquid heatsink
- Compact design
- Adaptor board included



Non-contractual image

Typical applications

- Renewable energy
- Traction
- Motor drives
- Industrial drives
- High power converters

ABSOLUTE MAXIMUM RATINGS

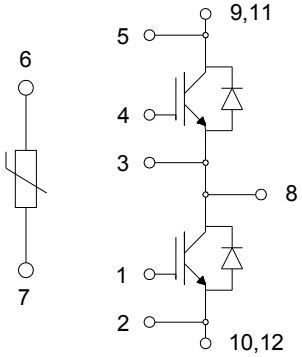
Symbol	Conditions	Min	Typ	Max
System				
V_{DClink}	Operating DC link voltage			1700
$I_{U,V,W}$	f_{sw}= 2 kHz, T_J< 150ºC, T_{HK}< 90ºC, T_{cool}= 60ºC, Q= 8 l/min f_{OUT}= 50 Hz, PF= 0.85, m = 1, V_{OUTRMS}= 600 V			520
T_{stg}		-40		125
T_{op}		-40		125
V_{ISOmod}	50 Hz @1min		4000	
IGBT	***(FF1000R17IE4)***			
V_{CES}	T_J=25°C			1700
I_C	T_C=100°C, T_J=175°C			1000
	T_C=25°C, T_J=175°C			1390
I_{CRM}	t_p=1ms			2000
T_J	Operating junction temperature (1)	-40		150
Diode				
V_{RRM}	T_J=25°C			1700
I_{FAV}	T_C=25°C, T_J=150°C			1000
	T_C=80°C, T_J=150°C			-
T_J	Operating junction temperature (1)	-40		150
Module	***PrimePACK™3***			
V_{ISO}	@ AC 1 minute		4000	
M_t	Main terminal Mounting Torque		8.0 ~ 10.0	
M_s	Heatsink Mounting Torque		3.0 ~ 6.0	
W	Weight		1200	
Heatsink	***(RG78033AI)***			
Rth_{HA}	(per module)		*see heatsink specs*	
Protections				
Thermal protection (Thermostat)		Normally closed (NC)		90
Environment specifications				
Protection grade (EN-60529 / CEI529 / UNE-20324)				IP-00
Humidity max.			50% RH @ 35°C / 90% RH	
Pollution degree				III

(Note 1): The maximum virtual junction temperature of chip is 150ºC

200102 Rev.:1

Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.

IGBT MODULE INTERNAL CIRCUIT AND PIN DESCRIPTION



Terminal	Name	Description
1	g2	Gate Input for Low-side
2	e2	Emitter Input for Low-side
3	e1-c2	e1-c2 input
4	g1	Gate Input for High-side
5	c1	Collector Input for High-side
6	NTC1	NTC terminal 1
7	NTC2	NTC terminal 2
8	E2	Emitter (Power) for Low-side
9	C1	Collector (Power) for High-side
10	E2	Emitter (Power) for Low-side
11	C1	Collector (Power) for High-side
12	E2	Emitter (Power) for Low-side

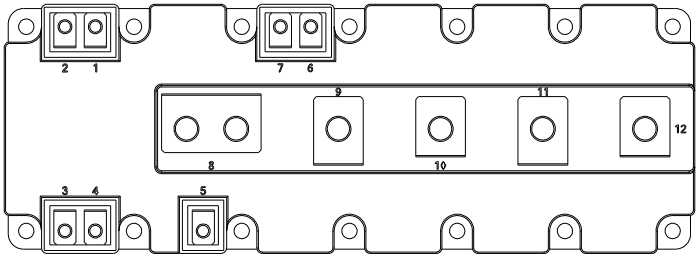


Image 1: IGBT module TOP view detail.

MODULE ADAPTOR BOARD SciCoreLink PP

The SCiCoreAdapt PP is developed for 1700 V PrimePACK™ modules. Used together with the SCiCoreLink67 adapter board and 2ED300C17-S /-ST EiceDRIVER™. Up to three modules can be paralleled, each equipped with one SCiCoreAdaptPP board.

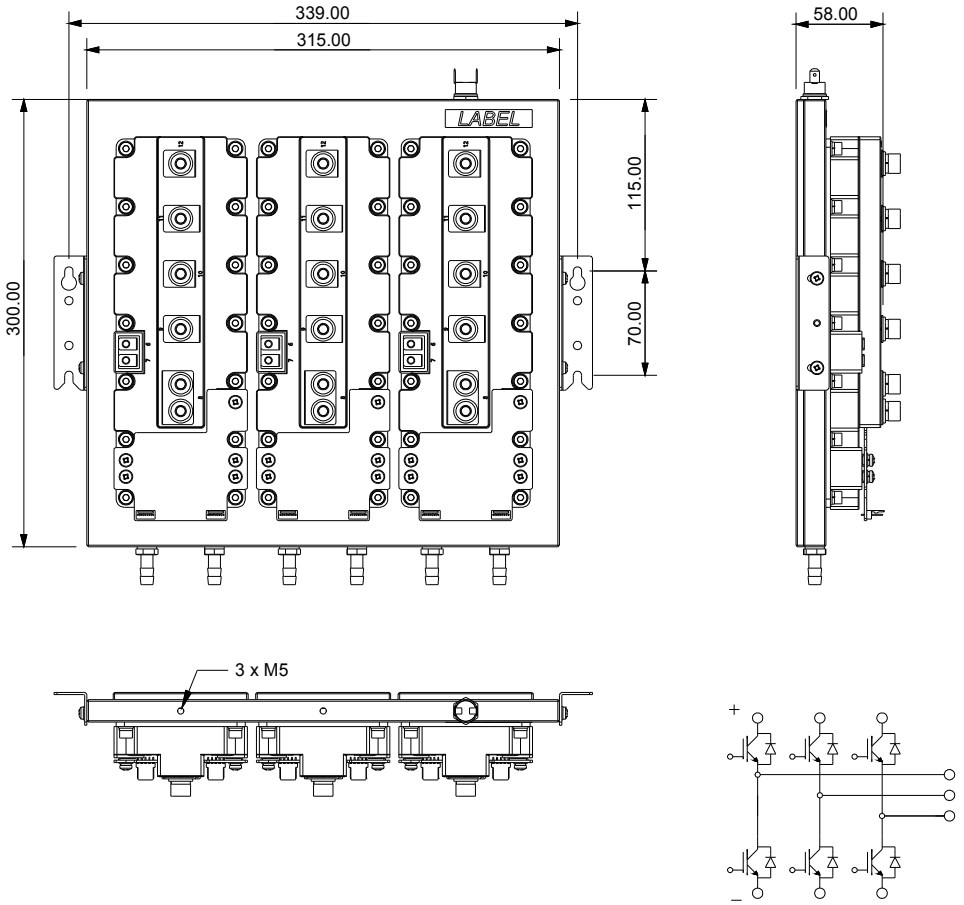
Please download here the complete datasheet for SCiCoreAdapt PP.
Please download here the complete datasheet for SCiCoreDrive67.

HEATSINK PERFORMANCE CURVE AND SPECIFICATIONS

Please download here the complete datasheet for RG78033 liquid heatsink.

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MECHANICAL DIMENSIONS



All dimensions in mm

Dimension	Typ	Units
Width	360	mm
Lenght	330	mm
Height	70	mm
Weight	9.7	kg (aprox)

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