

Diode Presspack stack

## SEMISTACK® CLASSICS - B6U

Three phase uncontrolled rectifier

### Preliminary Data

Ordering No. 08785103  
Description SKS 2300F B6U 1540 V16 ZU

### Features

- Non-isolated power stacks
- SKN 1500/16
- Heatsink P18/180
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

### Typical Applications

- Power supplies
- Rectifier for AC/DC motor control

### Remarks

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

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$ ; No overload		2 300		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			1 540		kW
$P_{LOSS}$	Stack power loss ( $T_{AMBIENT} = 35^{\circ}C$ )					W

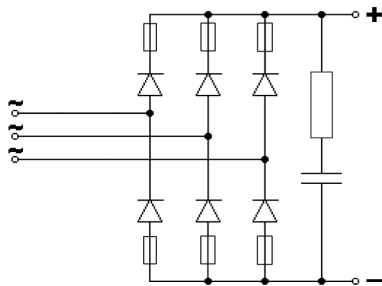
Environmental Data						
Symbol	Conditions		min	typ	max	Unit
Mechanical Data						
Drawing	SEMIKRON document number.revision.version			12061802.00		-
Weight	Approximate total weight			90.4		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution degree	EN 50178			2		-

Fan Data						
Symbol	Conditions		min	typ	max	Unit
Fan Data						
Type	SEMIKRON fan designation			SKF N4-230-03		-
$V_{FAN}$	Fan voltage			230		$V_{AC}$
$f_{FAN}$	Fan frequency			50/60		Hz
$I_{FAN}$	Fan maximum input current			1.1/1.71		A
$P_{FAN}$	Fan power			250/390		W

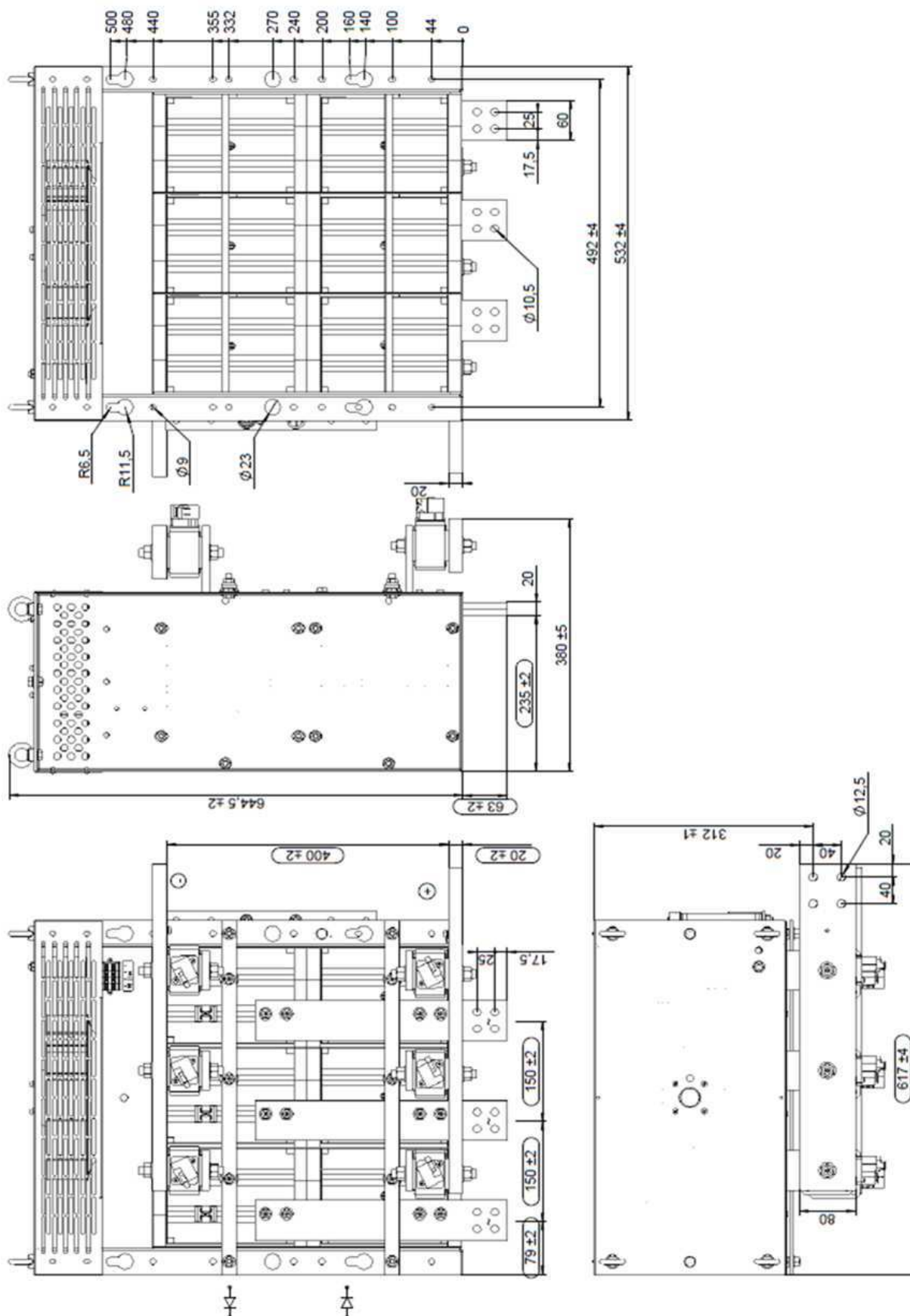
Stack Protection						
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with bridge rectifier			-		-
R	Resistance (80W)			33		Ohm
C				0.47		$\mu F$

Fuses						
Symbol	Conditions		min	typ	max	Unit
Fuses						
Size	1 fuse per switch, with microswitches			33		-
$I_{N RMS}$	Caliber			1 600		A
$U_N$	Nominal voltage (IEC)			600		V
$I^2t$	Total at $U_N$ at room temperature (approx. 20...25°C)				2 900	$kA^2s$

Bimetal Thermal Trip						
Symbol	Conditions		min	typ	max	Unit
Bimetal Thermal Trip						
$T_S$	Switching temperature over which thermal trip is open			110		$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current			1		A
				3		A



B6U



Dimensions

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