

Diode Module stack

## SEMISTACK® CLASSICS - B6U

Three phase uncontrolled rectifier

### Preliminary data

Ordering No. 08785126

Description SKS 185F B6U 125 V16

### Features

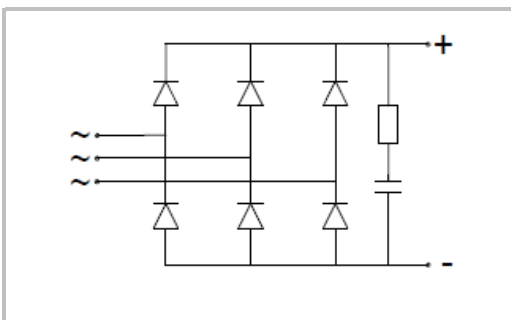
- Isolated power stacks
- SKKD 100/16
- Heatsink P3/180
- RC circuit included
- Forced air cooling
- Thermal trip included

### 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.



B6U

### Electrical Characteristics

Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$ ; No overload		185		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			125		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			12100302.00		-
Weight	Approximate total weight			4.6		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution degree	EN 50178			2		-

### Fan Data

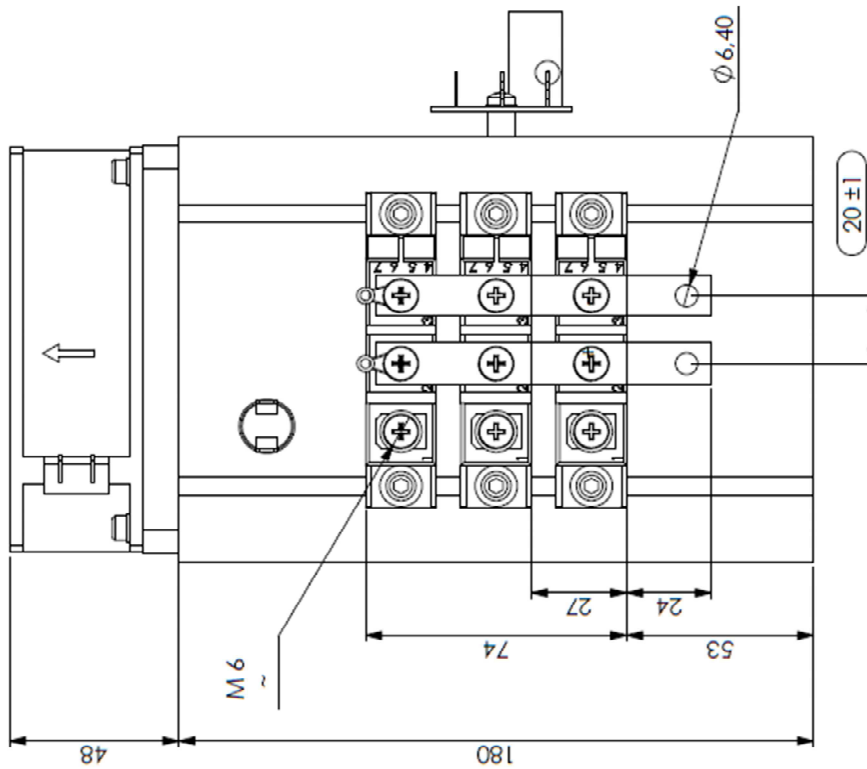
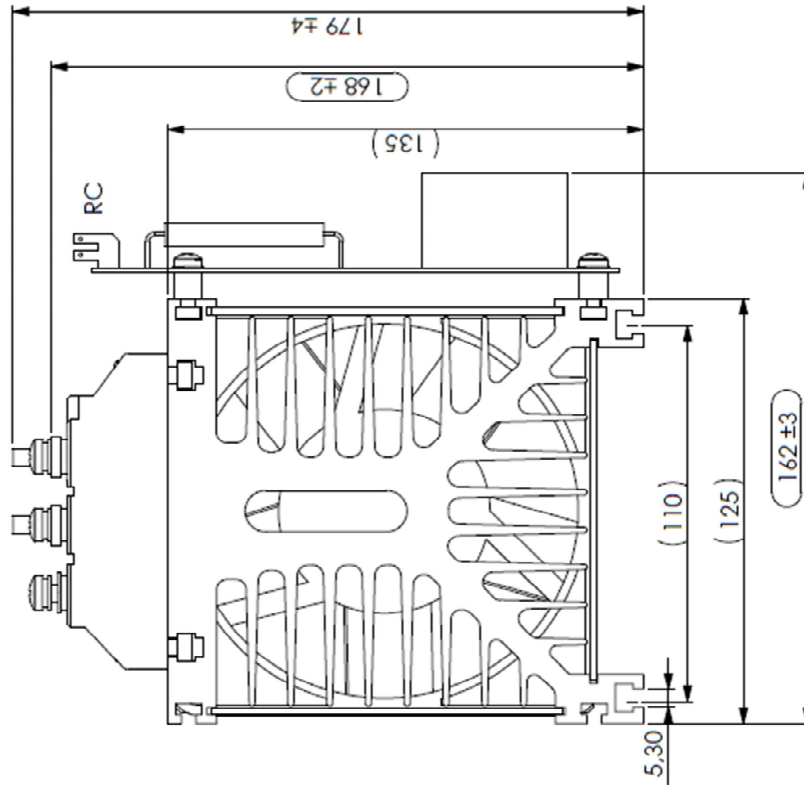
Type	SEMIKRON fan designation		SKF 3-230-01		-
$V_{FAN}$	Fan voltage		230		$V_{AC}$
$f_{FAN}$	Fan frequency		50/60		Hz
$I_{FAN}$	Fan maximum input current		0.12/0.10		A
$P_{FAN}$	Fan power		15/14		W

### Stack Protection

Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with bridge rectifier			1/2 RC15B		-
R	Resistance (11W)			68		Ohm
C				0.1		$\mu F$

### Bimetal Thermal Trip

$T_S$	Switching temperature over which thermal trip is open			80		$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current			1		A
				3		A



Dimensions

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