



Diode Stud stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$ ; No overload		535		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			360		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			11091216.00.B		-
Weight	Approximate total weight			20.3		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution degree	EN 50178			2		-

## SEMISTACK® CLASSICS - B6U

Three phase uncontrolled rectifier

### Preliminary Data

Ordering No. 08785113  
Description SKS 535N B6U 360 V16 SU

### Features

- Non-isolated power stacks
- SKN 320/16
- Heatsink P1/200
- Natural cooling
- RC circuit included
- Fuses with microswitches

### Typical Applications

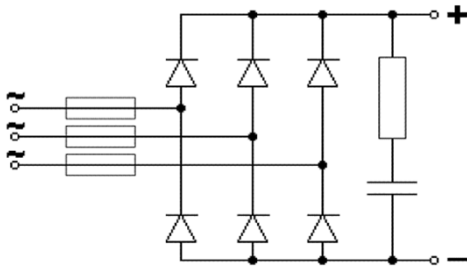
- Power supplies
- Rectifier for AC/DC motor control

### Remarks

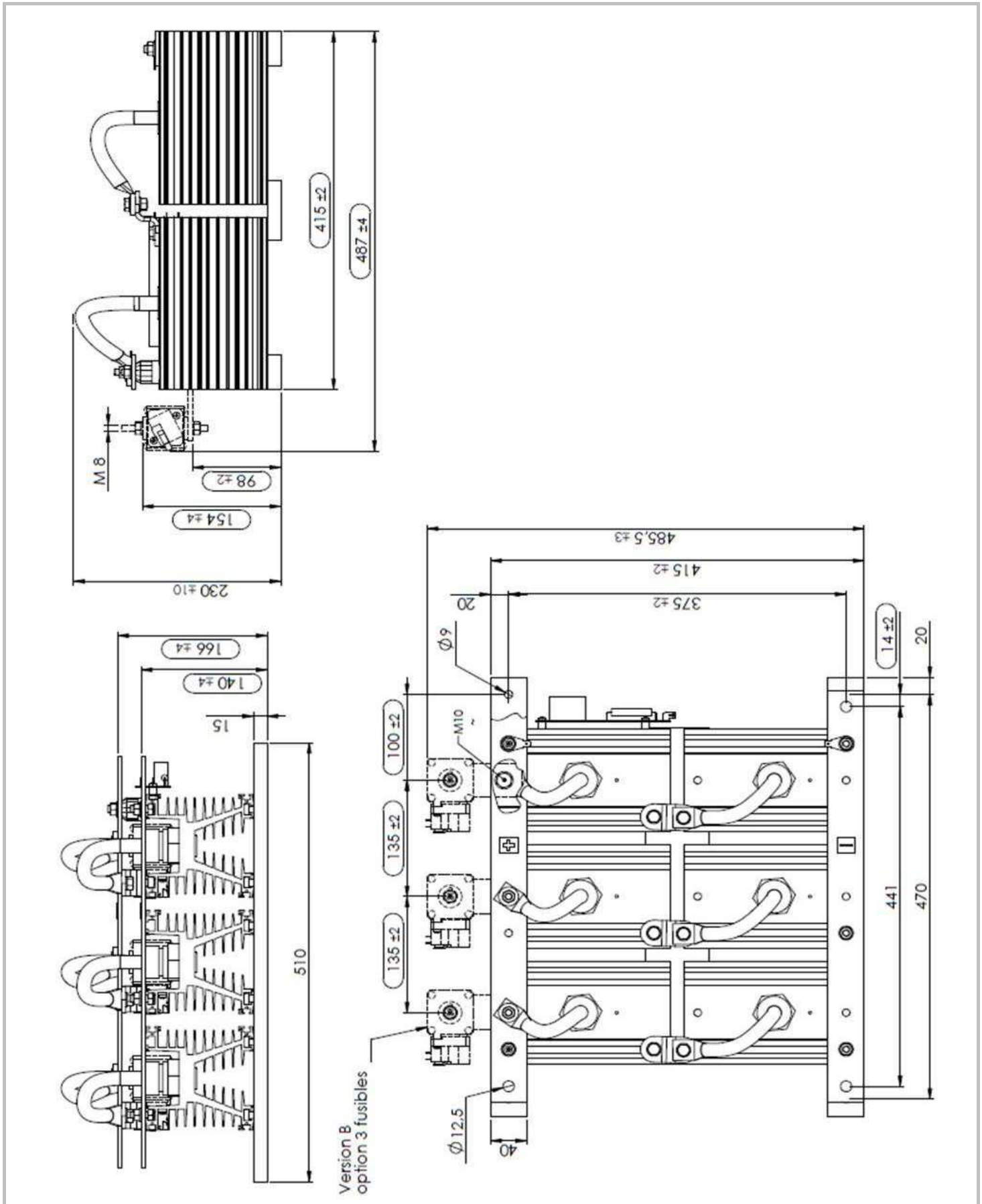
This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee, expressed or implied, is made regarding delivery, performance or suitability.

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		$\mu F$

Fuses						
Symbol	Conditions		min	typ	max	Unit
Fuses						
Size	1 fuse per phase, with microswitches			31		-
$I_{N,RMS}$	Caliber			700		A
$U_N$	Nominal voltage (IEC)			690		V
$I^2t$	Total at $U_N$ at room temperature (approx. 20...25°C)				514.5	$kA^2s$



B6U



Dimensions

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