



Thyristor Module stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$ ; No overload		180		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			120		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			<b>11092006.01.A</b>		-
Weight	Approximate total weight			5.47		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution Degree	EN 50178			2		-

Fan Data						
Type	SEMIKRON fan designation			<b>SKF 3-230-01</b>		-
$V_{FAN}$	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 each electrical switch			<b>RC32</b>		-
R	Resistance (11W)			100		Ohm
C				0.1		$\mu F$

Fuses						
Size	1 fuse per phase, with microswitches			<b>000</b>		-
$I_{N RMS}$	Caliber			160		A
$U_N$	Nominal voltage (IEC)			690		V
$I^2t$	Total at $U_N$ at room temperature (approx. 20...25°C)				17.44	$kA^2s$

Bimetal Thermal Trip						
$T_S$	Switching temperature over which thermal trip is open			80		$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current		at 240VAc	1		A
			at 30Vdc	3		A

## SEMISTACK® CLASSICS - B6C

Three phase controlled rectifier

### Preliminary Data

Ordering No. 08785029  
Description SKS 180F B6C 120 V16 SU

### Features

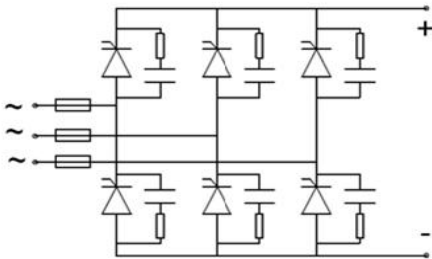
- Isolated power stacks
- SKKT 106/16
- Heatsink P3/180
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

### Typical Applications

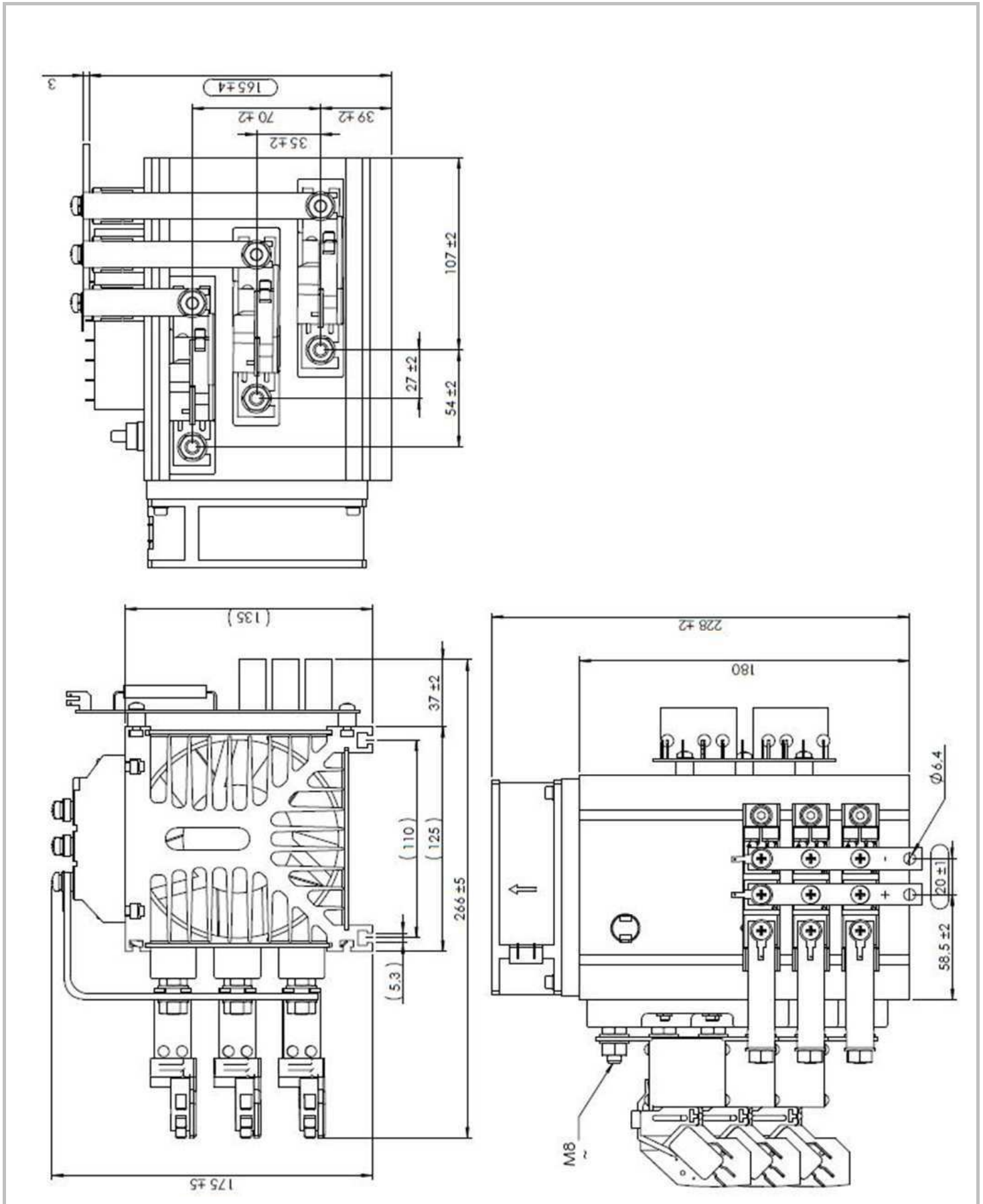
- Regulated power supplies
- Alternator excitation
- Motor control

### Remarks

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B6C



Dimensions

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