



Thyristor stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{amb} = 35^\circ\text{C}$ ; No overload		365		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			245		kW
$P_{LOSS}$	Stack power loss ( $T_{AMBIENT} = 35^\circ\text{C}$ )					W

Environmental Data						
Symbol	Conditions		min	typ	max	Unit
Mechanical Data						
Drawing	SEMIKRON document number.revision.version			<b>12100522.00.A</b>		-
Weight	Approximate total weight			11,6		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution Degree	EN 50178			2		-

Fan Data						
Type	SEMIKRON fan designation			<b>SKF 16A-230-11</b>		-
$V_{FAN}$	Fan voltage			230		$V_{AC}$
$f_{FAN}$	Fan frequency			50/60		Hz
$I_{FAN}$	Fan maximum input current			0.60/0.68		A
$P_{FAN}$	Fan power			135/154		W

Stack Protection						
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with each electrical switch			<b>RC47</b>		-
R	Resistance (11W)			47		Ohm
C				0.22		$\mu\text{F}$

Fuses						
Size	No Fuses			-		-
$I_{N\text{RMS}}$	Caliber			-		A
$U_N$	Nominal voltage (IEC)			-		V
$I^2t$	Total at $U_N$ at room temperature (approx. 20...25°C)			-		$\text{kA}^2\text{s}$

Bimetal Thermal Trip						
$T_S$	Switching temperature over which thermal trip is open			75		$^\circ\text{C}$
$I_{TC\text{ MAX}}$	Maximum permissible current		at 240VAc	1		A
			at 30Vdc	3		A

## SEMISTACK® CLASSICS - B6C

Three phase controlled rectifier

### Preliminary Data

Ordering No. 08785024  
Description SKS 365F B6C 245 V16

### Features

- Isolated power stacks
- SKKT 162/16
- Heatsink P16/200 SPack2
- Forced air cooling
- RC circuit included

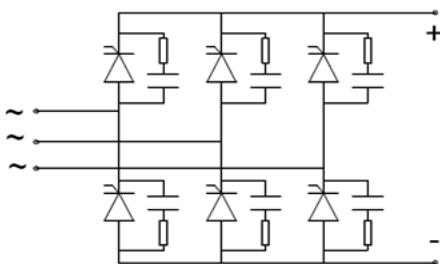
- Thermal trip included

### Typical Applications

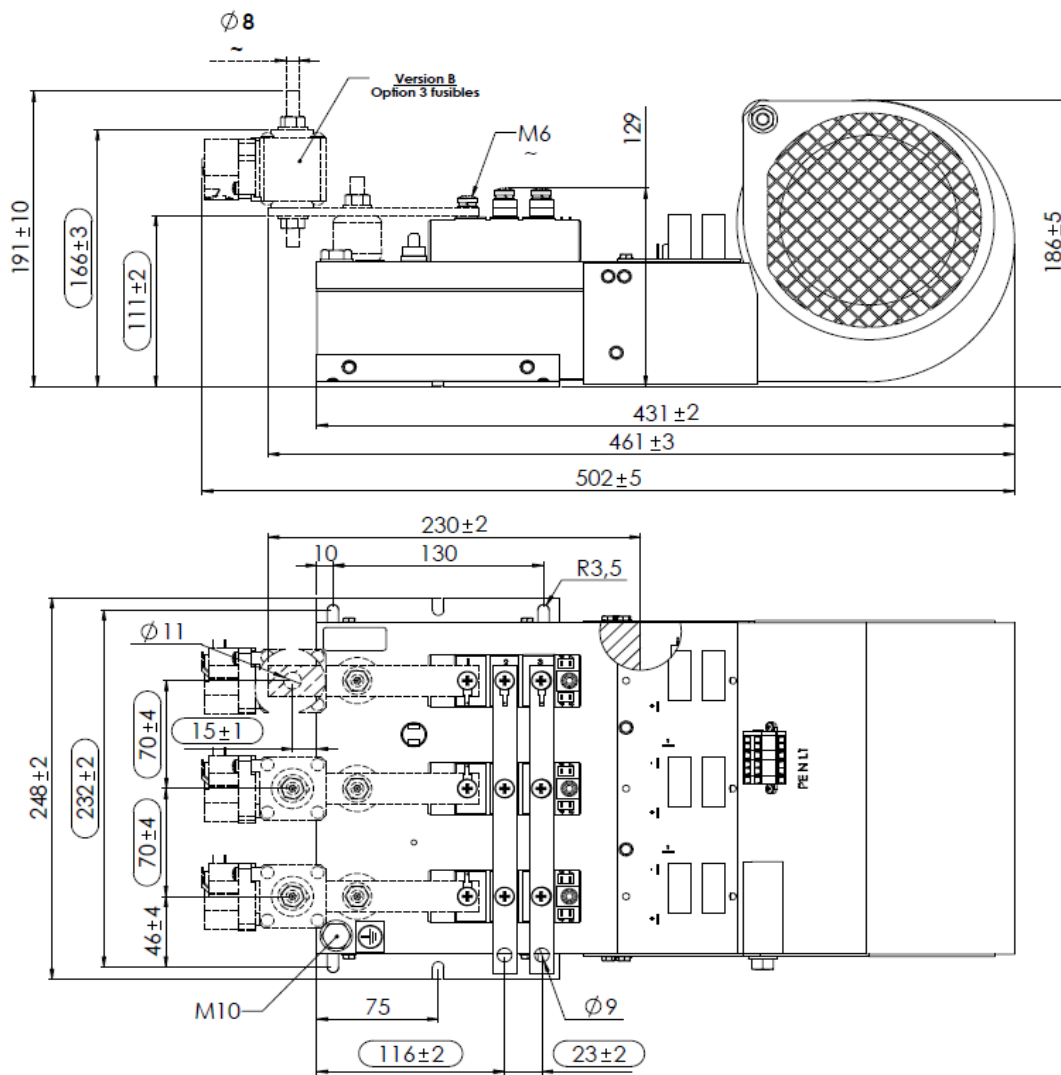
- Regulated power supplies
- Alternator excitation
- Motor control

### Remarks

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B6C



Dimensions

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