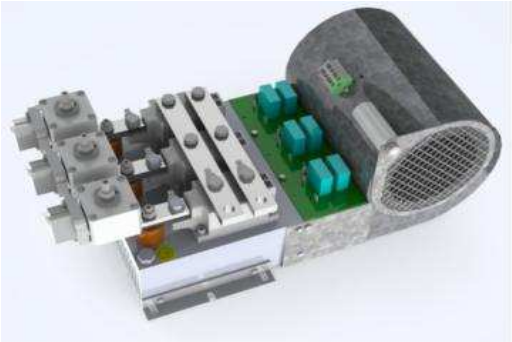
SKS 640F B6C 430 V16 SU



Thyristor Module stack

SEMISTACK® CLASSICS - B6C
Three phase controlled rectifier

Preliminary Data

Ordering No. 08785021
Description SKS 640F B6C 430 V16 SU

Features

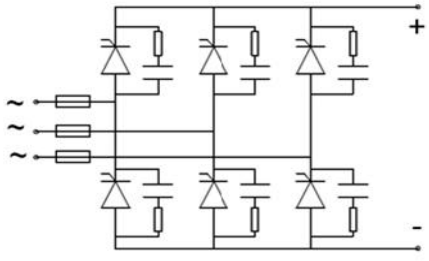
- Isolated power stacks
- SKKT 330/16
- Heatsink P16/200
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

Typical Applications

- Regulated power supplies
- Alternator excitation
- 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.



B6C

Electrical Characteristics						
Symbol	**Conditions**		**min**	**typ**	**max**	**Unit**
Electrical Data						
I_D	Maximum DC current	$T_{AMBIENT}$ = 35°C ; No overload		640		A
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
V_{BUS}	DC Bus voltage			670		V_{DC}
P_{TOTAL}	Maximum stack power			430		kW
P_{LOSS}	Stack power loss ($T_{AMBIENT}$ = 35°C)					W

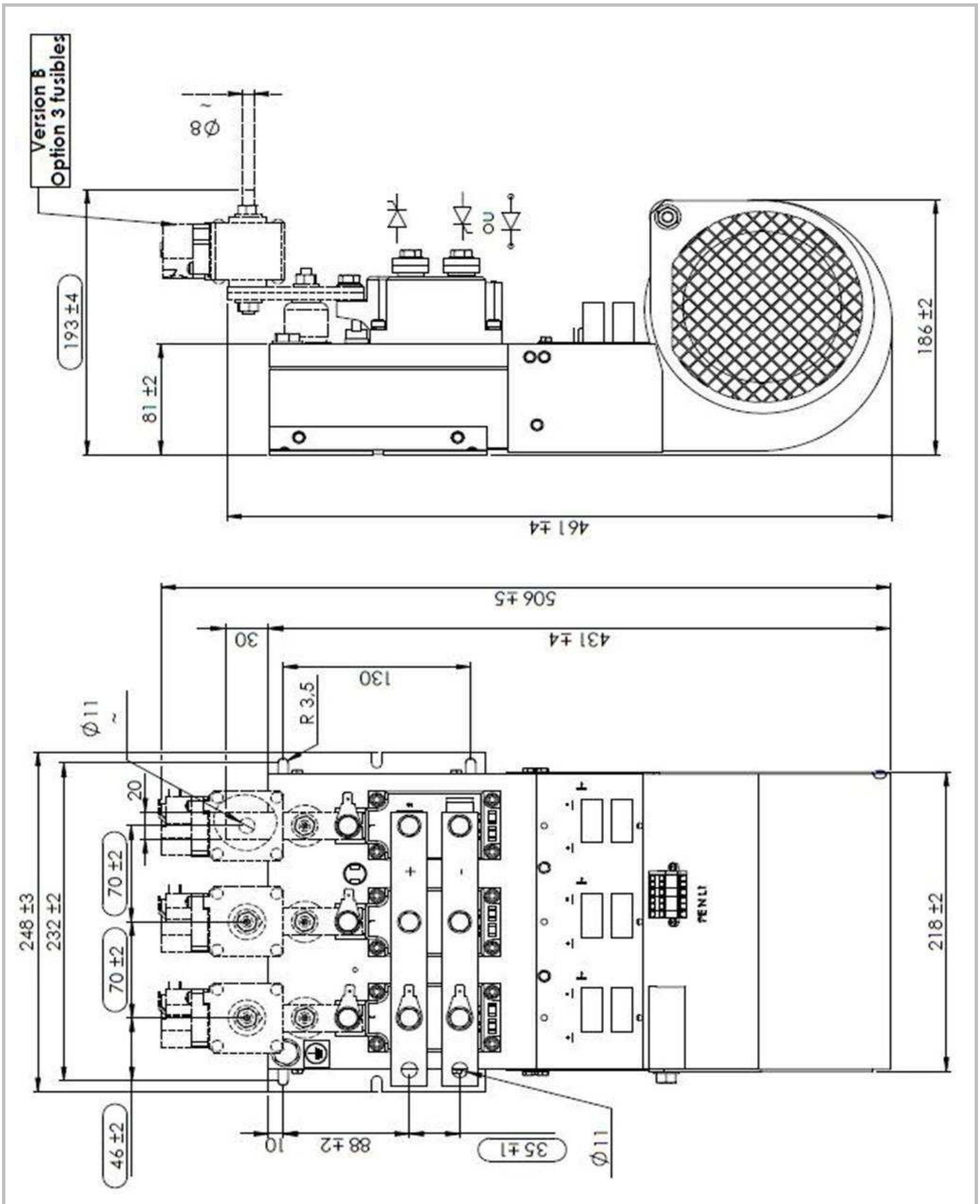
Environnmental Data					
Symbol	**Conditions**	**min**	**typ**	**max**	**Unit**
Mechanical Data					
Drawing	SEMIKRON document number.revision.version		**12100512.00.B**		-
Weight	Approximate total weight		15.52		kg
Altitude	Installation altitude without derating			1 000	m
Protection	IEC 60529		IP00		-
Pollution Degree	EN 50178		2		-

Fan Data					
Type	SEMIKRON fan designation		**SKF 16A-230-11**		-
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		**RC47**		-
R	Resistance (11W)		47		Ohm
C			0.22		µF

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 Un at room temperature (approx. 20…25°C)			515	kA^2s

Bimetal Thermal Trip				
T_S	Switching temperature over which thermal trip is open		85	°C
$I_{TC\ MAX}$	Maximum permissible current	at 240VAC	1	A
		at 30VDC	3	A



Dimensions

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