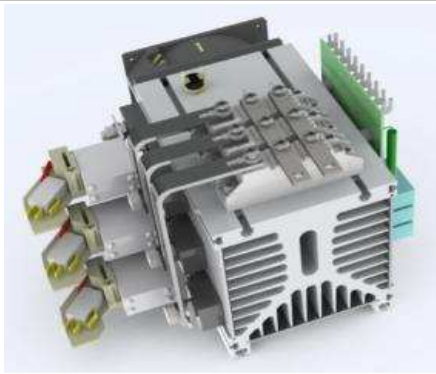


SKS 180F B6C 120 V16 SU



Thyristor Module stack

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

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

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
I _D	Maximum DC current	T _{AMBIENT} = 35°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°C)					W

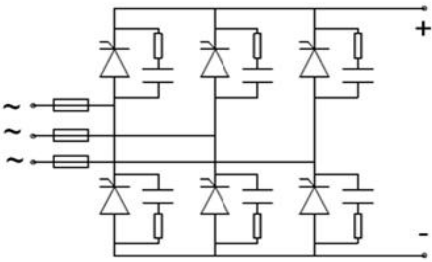
Environmental Data					
Symbol	Conditions	min	typ	max	Unit
Mechanical Data					
Drawing	SEMIKRON document number.revision.version	11092006.01.A			-
Weight	Approximate total weight	5.47			kg
Altitude	Installation altitude without derating	1 000			m
Protection	IEC 60529	IP00			-
Pollution Degree	EN 50178	2			-

Fan Data			
Type	SEMIKRON fan designation	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

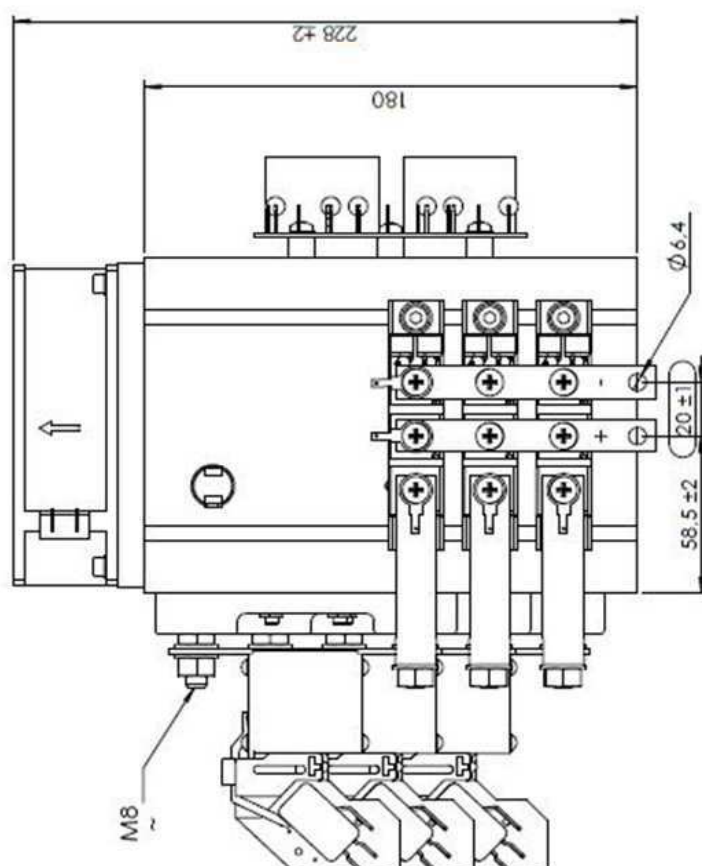
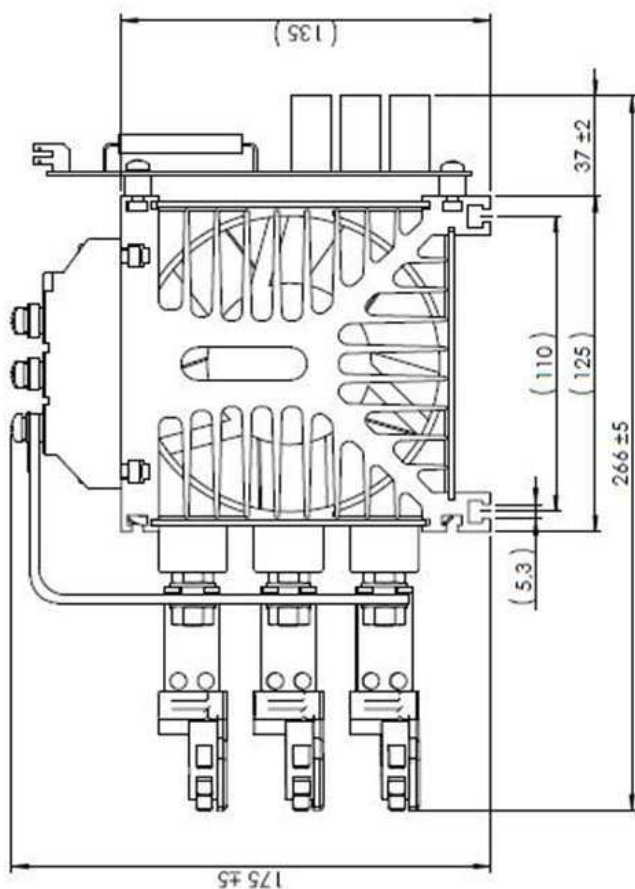
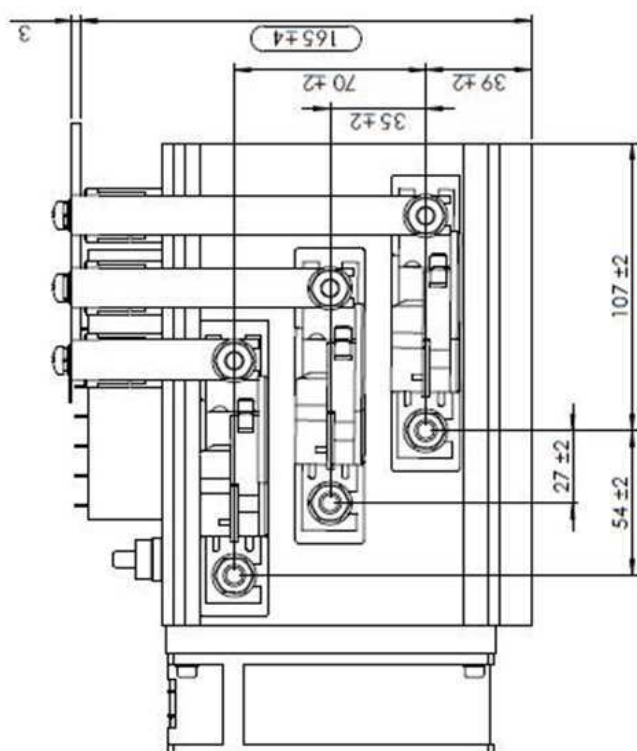
Stack Protection					
Symbol	Conditions	min	typ	max	Unit
RC Circuit					
Type	RC in parallel with each electrical switch	RC32			-
R	Resistance (11W)	100			Ohm
C		0.1			μF

Fuses			
Size	1 fuse per phase, with microswitches	000	-
$I_{N RMS}$	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	°C
$I_{TC MAX}$	Maximum permissible current	at 240V _{AC}	1 A
		at 30V _{DC}	3 A



B6C



Dimensions

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