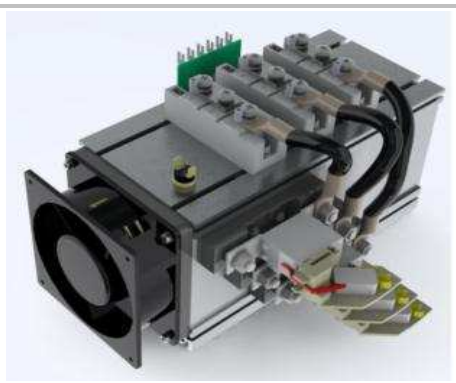
SKS 195F W3C 170 V16 SU



Thyristor Module stack

SEMISTACK® CLASSICS - W3C
Three phase reverse parallel thyristor converter

Preliminary Data

Ordering No. 08785227
Description SKS 195F W3C 170 V16 SU

Features

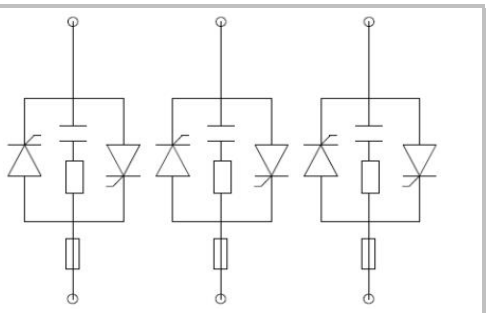
- Isolated power stacks
- SKKT 162/16
- Heatsink P3/265
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

Typical Applications

- Soft starters

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.



W3C

Electrical Characteristics						
Symbol	**Conditions**		**min**	**typ**	**max**	**Unit**
Electrical Data						
I_{OUT}	Maximum output current	$T_{AMBIENT}$ = 35°C ; No overload		195		A_{RMS}
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
P_{TOTAL}	Maximum stack power			170		kW
P_{LOSS}	Stack power loss ($T_{AMBIENT}$ = 35°C)					W

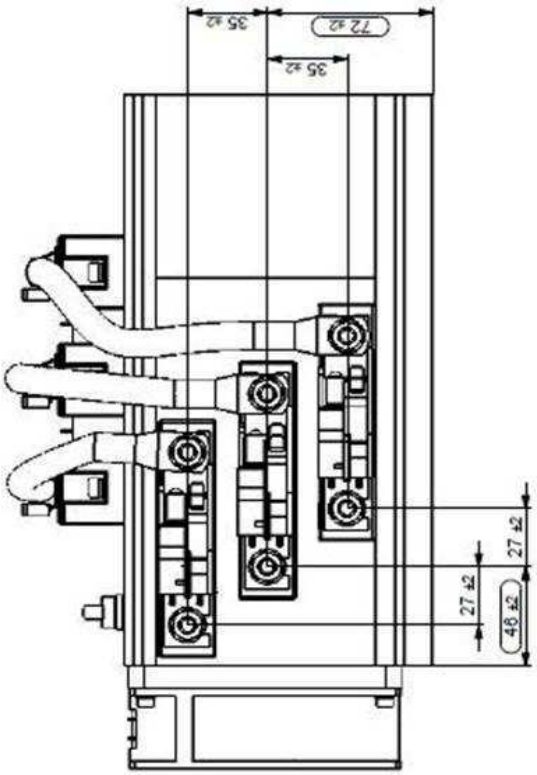
Environnmental Data					
Symbol	**Conditions**	**min**	**typ**	**max**	**Unit**
Mechanical Data					
Drawing	SEMIKRON document number.revision.version		**12041102.00**		-
Weight	Approximate total weight		7.8		kg
Altitude	Installation altitude without derating			1 000	m
Protection	IEC 60529		IP00		-
Pollution Degree	EN 50178		2		-

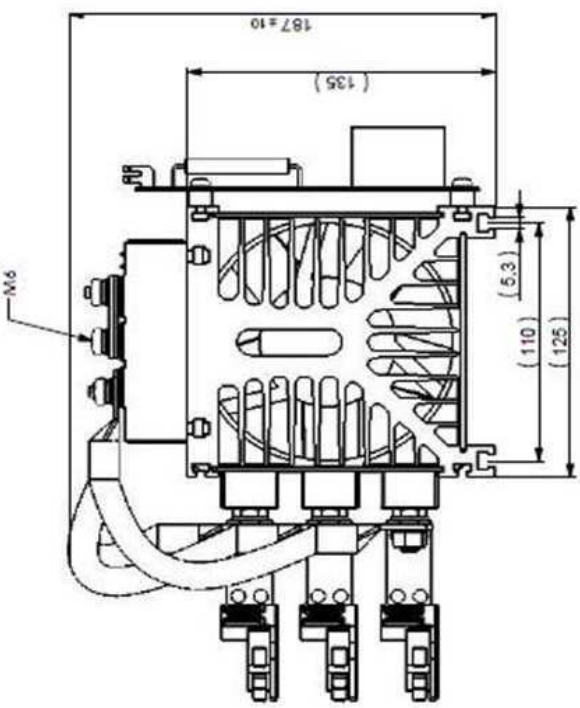
Fan Data					
Type	SEMIKRON fan designation		**SKF 3-230-01**		-
V_{FAN}	Fan voltage		230		V_{AC}
f_{FAN}	Fan frequency		50/60		Hz
I_{FAN}	Fan maximum input current		0.12/0.10		A
P_{FAN}	Fan power		15/14		W

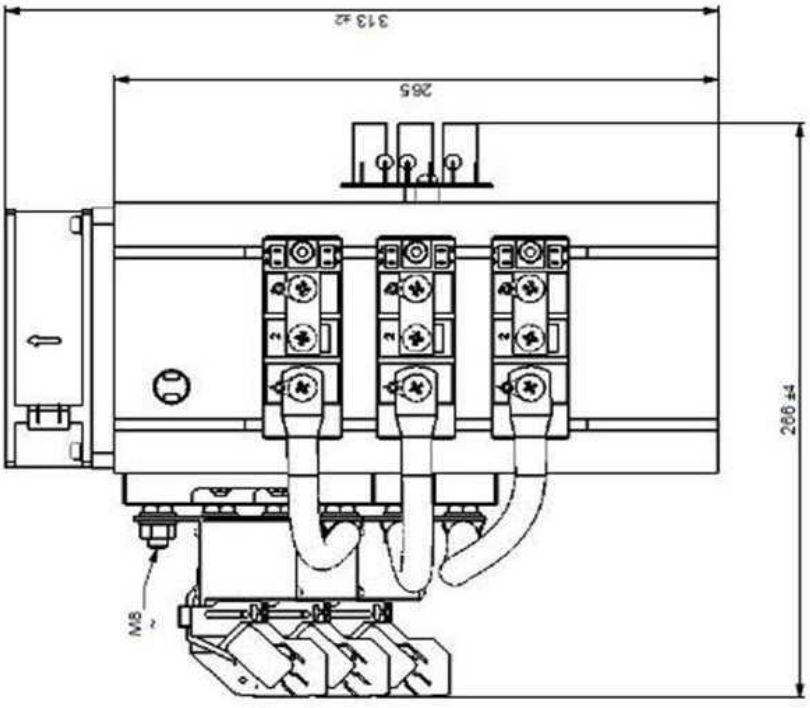
Stack Protection					
Symbol	**Conditions**	**min**	**typ**	**max**	**Unit**
RC Circuit					
Type	RC in parallel with each switch		**RC25B**		-
R	Resistance (10W)		68		Ohm
C			0.1		µF

Fuses					
Size	1 fuse per phase, with microswitches		**000**		-
$I_{N\ RMS}$	Caliber		250		A
U_N	Nominal voltage (IEC)	690			V
I^2t	Total at Un at room temperature (approx. 20…25°C)			56.68	kA^2s

Bimetal Thermal Trip				
T_S	Switching temperature over which thermal trip is open		90	°C
$I_{TC\ MAX}$	Maximum permissible current	at 240V_{AC}	1	A
		at 30V_{DC}	3	A







Dimensions