

Thyristor Module stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
I_{OUT}	Maximum output current	$T_{AMBIENT} = 35^{\circ}C$; 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 ($T_{AMBIENT} = 35^{\circ}C$)					W

Environmental 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						
Symbol	Conditions		min	typ	max	Unit
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						
Symbol	Conditions		min	typ	max	Unit
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 U_N at room temperature (approx. 20...25°C)				56.68	kA^2s

Bimetal Thermal Trip						
Symbol	Conditions		min	typ	max	Unit
T_S	Switching temperature over which thermal trip is open			90		$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current			1		A
	at 30Vdc			3		A

SEMISTACK® CLASSICS - W3C

Three phase reverse parallel thyristor converter

Preliminary Data

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

Features

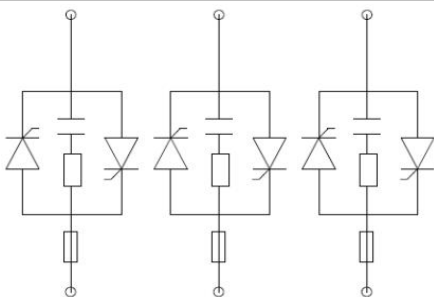
- Isolated power stacks
- SKKT 162/16
- Heatsink P3/265
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

Typical Applications

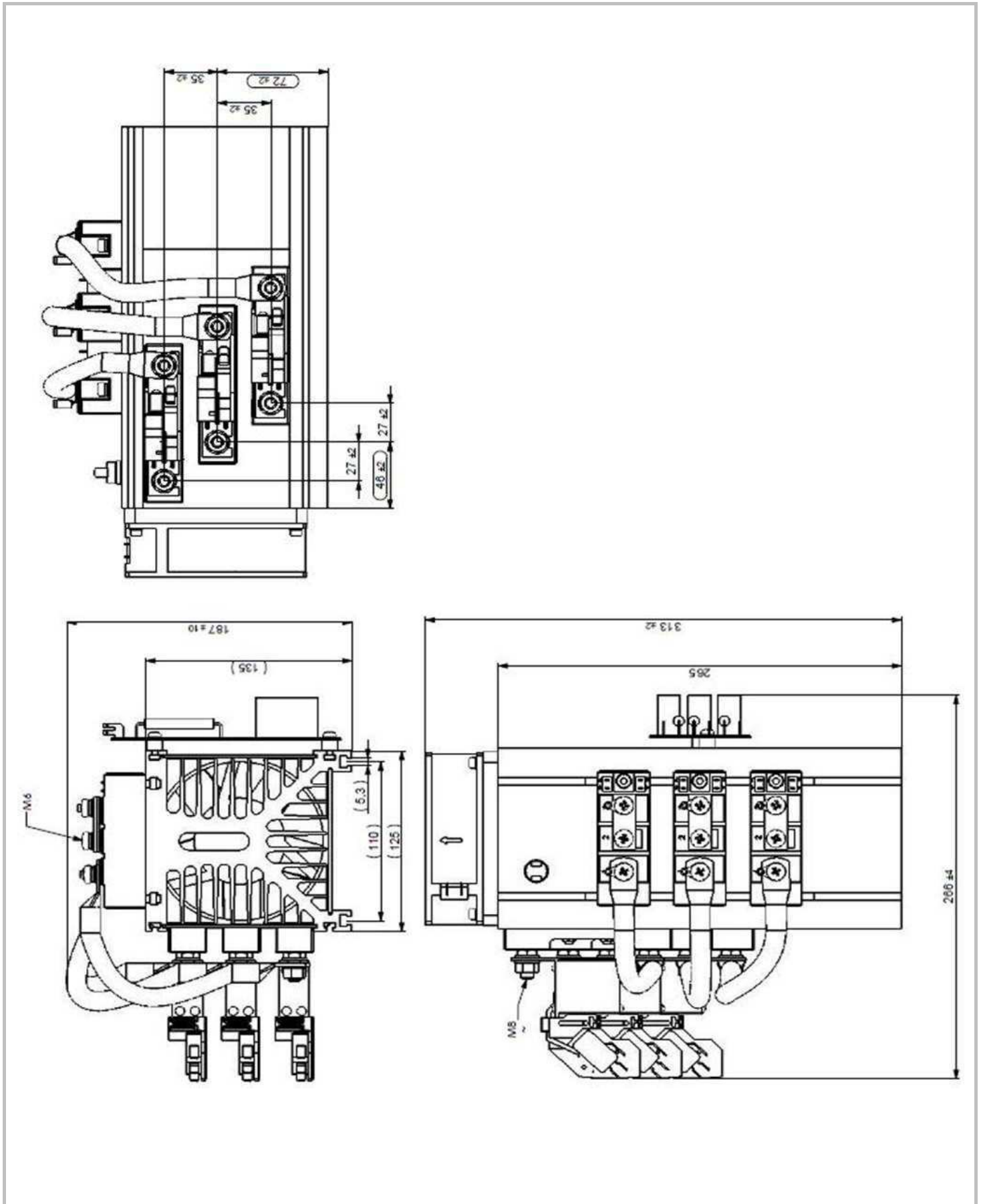
- Soft starters

Remarks

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W3C



Dimensions

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