



Thyristor Presspack stack

SEMISTACK® CLASSICS - W3C

Three phase reverse parallel thyristor converter

Preliminary Data

Ordering No. 08785203
Description SKS 1540F W3C 1335 V16 SU

Features

- Non-isolated power stacks
- SKT 1200/16
- Heatsink P18/180
- 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.

Electrical Characteristics							
Symbol	Conditions			min	typ	max	Unit
Electrical Data							
I _{OUT}	Maximum output current	T _{AMBIENT} = 35°C ; No overload			1 540		A _{RMS}
V _{AC}	Maximum AC voltage (+/-10%)				500		V _{AC}
P _{TOTAL}	Maximum stack power				1 335		kW
P _{LOSS}	Stack power loss (T _{AMBIENT} = 35°C)						W

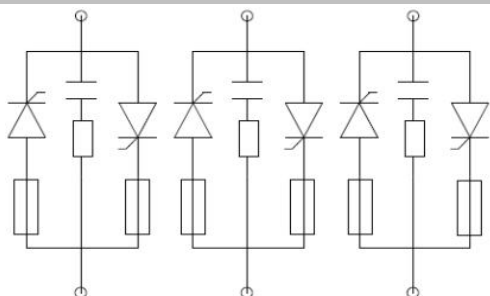
Environmental Data							
Symbol	Conditions			min	typ	max	Unit
Mechanical Data							
Drawing	SEMIKRON document number.revision.version			12041702.00		-	
Weight	Approximate total weight			74.8		kg	
Altitude	Installation altitude without derating					1 000	m
Protection	IEC 60529			IP00		-	
Pollution Degree	EN 50178			2		-	

Fan Data			
Type	SEMIKRON fan designation	SKF N4-230-01	-
V_{FAN}	Fan voltage	230	V_{AC}
f_{FAN}	Fan frequency	50/60	Hz
I_{FAN}	Fan maximum input current	0.69/0.98	A
P_{FAN}	Fan power	155/230	W

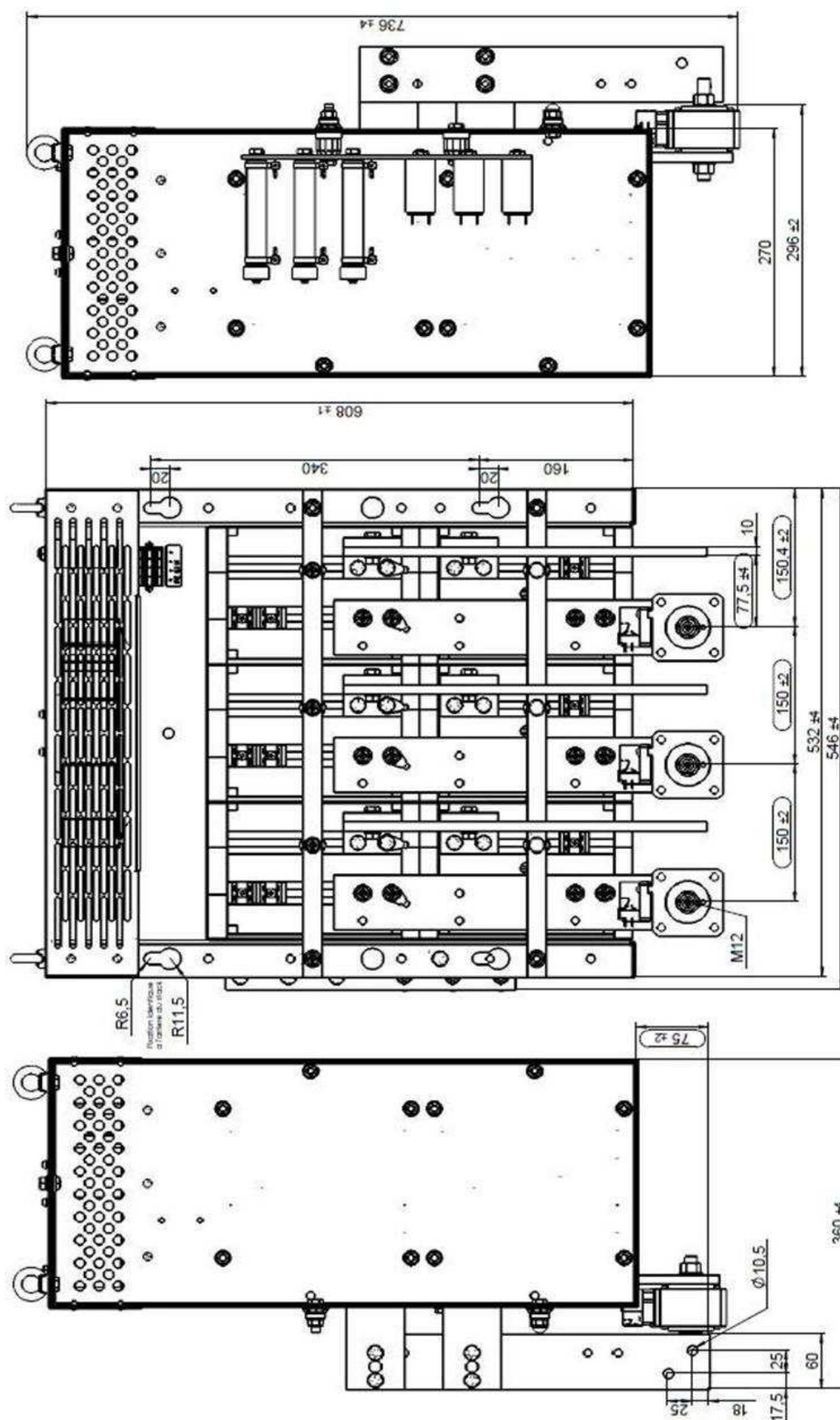
Stack Protection						
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with each switch		-		-	
R	Resistance (80W)		33		Ohm	
C			0.47		μF	

Fuses			
Size	1 fuse per switch, with microswitches	33	-
$I_{N RMS}$	Caliber	1 400	A
U_N	Nominal voltage (IEC)	690	V
I^2t	Total at U_N at room temperature (approx. 20...25°C)	2 625	kA^2s

Bimetal Thermal Trip			
T_S	Switching temperature over which thermal trip is open	100	$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current at 240VAC	1	A
	at 30Vdc	3	A



W3C



Dimensions

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