

Thyristor Presspack stack

SEMISTACK® CLASSICS - W3C

Three phase reverse parallel thyristor converter

Preliminary Data

Ordering No. 08785201
Description SKS 2150F W3C 1860 V16 ZU

Features

- Non-isolated power stacks
- SKT 1200/16
- Heatsink N4/250
- 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	$T_{amb} = 35^{\circ}C$; No overload		2 150		A_{RMS}
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
P_{TOTAL}	Maximum stack power			1 860		kW
P_{LOSS}	Stack power loss ($T_{AMBIENT} = 35^{\circ}C$)					W

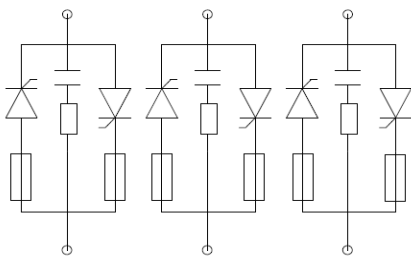
Environmental Data						
Symbol	Conditions		min	typ	max	Unit
Mechanical Data						
Drawing	SEMIKRON document number.revision.version			12100552.01		-
Weight	Approximate total weight			137,1		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution Degree	EN 50178			2		-

Fan Data			
Type	SEMIKRON fan designation	SKF N4-230-03	-
V_{FAN}	Fan voltage	230	V_{AC}
f_{FAN}	Fan frequency	50/60	Hz
I_{FAN}	Fan maximum input current	1.1/1.71	A
P_{FAN}	Fan power	250/390	W

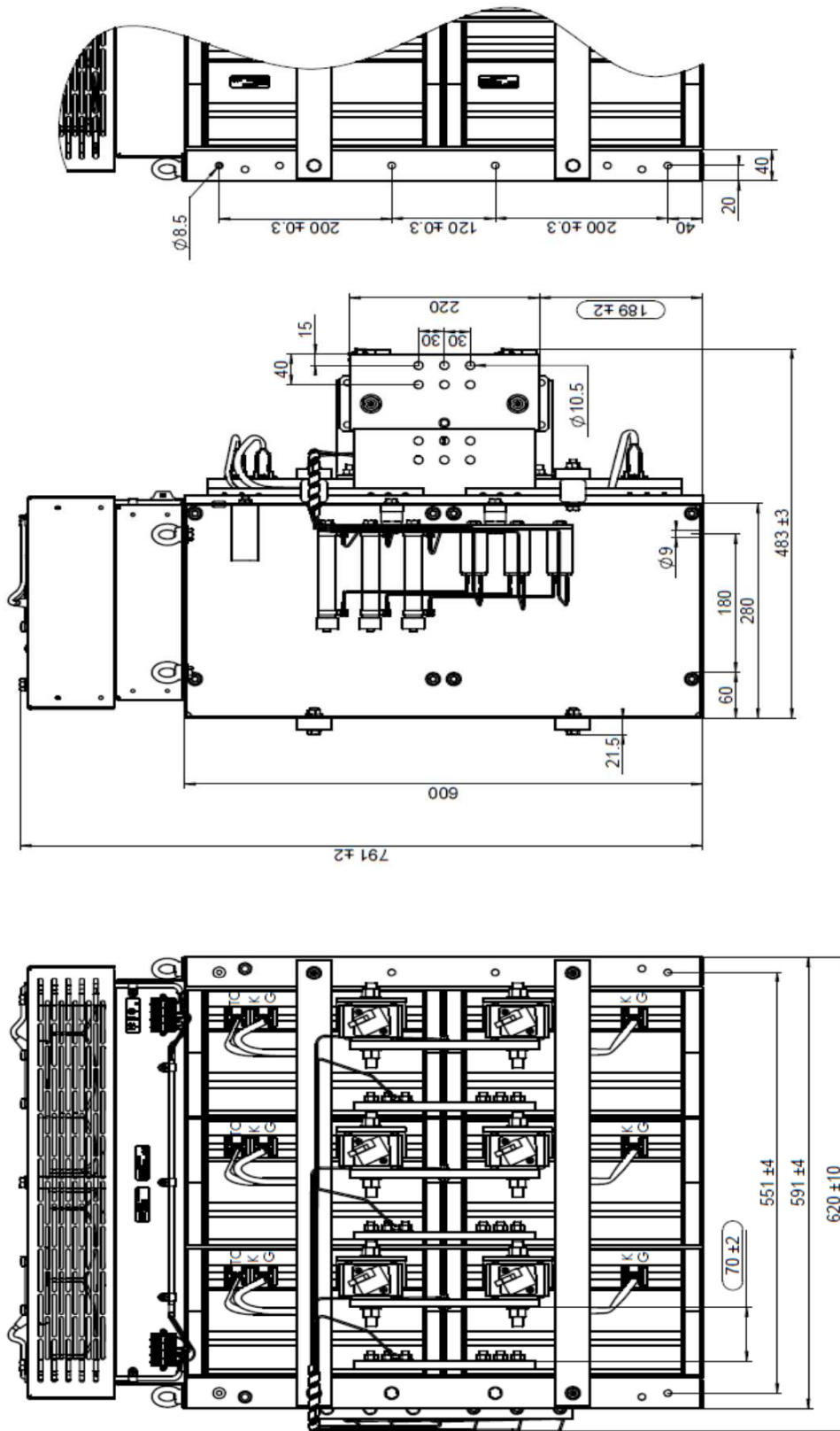
Stack Protection						
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with each switch			-		-
R	Resistance (80W)			33		Ohm
C				0.47		μF

Fuses			
Size	1 fuse per switch, with microswitches	33	-
$I_{N RMS}$	Caliber	1 800	A
U_N	Nominal voltage (IEC)	600	V
I^2t	Total at U_N at room temperature (approx. 20...25°C)		3 870 kA^2s

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



W3C



Dimensions

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