

Thyristor Presspack stack

SEMISTACK® CLASSICS - W3C

Three phase reverse parallel thyristor converter

Preliminary Data

Ordering No. 08785204
Description SKS 1180F W3C 1020 V16

Features

- Non-isolated power stacks
- SKT 1200/16
- Heatsink P17/130
- Forced air cooling
- RC circuit included
- 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.

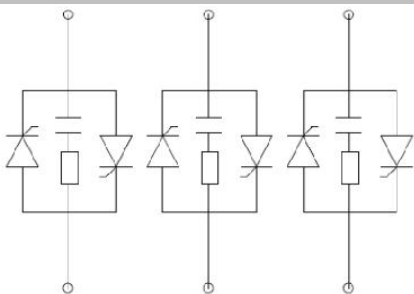
Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
I_{OUT}	Maximum output current	$T_{AMBIENT} = 35^{\circ}C$; No overload		1 180		A_{RMS}
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
P_{TOTAL}	Maximum stack power			1 020		kW
P_{LOSS}	Stack power loss ($T_{AMBIENT} = 35^{\circ}C$)					W

Environmental Data						
Symbol	Conditions		min	typ	max	Unit
Mechanical Data						
Drawing	SEMIKRON document number.revision.version			11121606.02		-
Weight	Approximate total weight			42.5		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 17A-230-11	-
V_{FAN}	Fan voltage	230	V_{AC}
f_{FAN}	Fan frequency	50/60	Hz
I_{FAN}	Fan maximum input current	0.36/0.51	A
P_{FAN}	Fan power	81/115	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

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



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