



Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{amb} = 35^\circ\text{C}$ ; No overload		2 580		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			1 730		kW
$P_{LOSS}$	Stack power loss ( $T_{AMBIENT} = 35^\circ\text{C}$ )					W

Environmental Data						
Symbol	Conditions		min	typ	max	Unit
Mechanical Data						
Drawing	SEMIKRON document number.revision.version			11110726.02.A		-
Weight	Approximate total weight			170,1		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
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 electrical switch			-		-
R	Resistance (80W)			33		Ohm
C				0.47		$\mu\text{F}$

Fuses						
Symbol	Conditions		min	typ	max	Unit
Fuses						
Size	1 fuse per switch, with microswitches			33		-
$I_{N\text{ RMS}}$	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	$\text{kA}^2\text{s}$

Bimetal Thermal Trip						
Symbol	Conditions		min	typ	max	Unit
Bimetal Thermal Trip						
$T_S$	Switching temperature over which thermal trip is open			80		$^\circ\text{C}$
$I_{TC\text{ MAX}}$	Maximum permissible current			1		A
				3		A

**SEMISTACK® CLASSICS - B6C**

Three phase controlled rectifier

**Preliminary Data**

Ordering No. 08785001  
Description SKS 2580F B6C 1730 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**

- Regulated power supplies
- Alternator excitation
- Motor control

**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.



