

Thyristor Module stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
I_D	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$; No overload		570		A
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
V_{BUS}	DC Bus voltage			670		V_{DC}
P_{TOTAL}	Maximum stack power			380		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			12100512.00.B		-
Weight	Approximate total weight			15.52		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 16A-230-11		-
V_{FAN}	Fan voltage			230		V_{AC}
f_{FAN}	Fan frequency			50/60		Hz
I_{FAN}	Fan maximum input current			0.60/0.68		A
P_{FAN}	Fan power			135/154		W

Stack Protection						
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with each electrical switch			RC47		-
R	Resistance (11W)			47		Ohm
C				0.22		μF

Fuses						
Size	1 fuse per phase, with microswitches			31		-
$I_{N RMS}$	Caliber			700		A
U_N	Nominal voltage (IEC)			690		V
I^2t	Total at U_N at room temperature (approx. 20...25°C)				514.5	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

SEMISTACK® CLASSICS - B6C

Three phase controlled rectifier

Preliminary Data

Ordering No. 08785023
Description SKS 570F B6C 380 V16 SU

Features

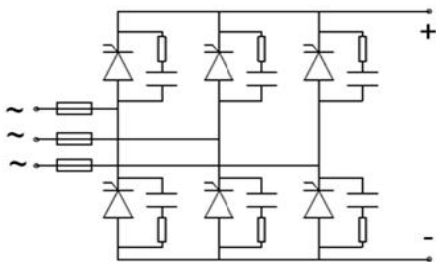
- Isolated power stacks
- SKKT 323/16
- Heatsink P16/200
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

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.



B6C

