

SKS 1200F B6HK 800 V16 SU



Thyristor/Diode Presspack stack

SEMISTACK® CLASSICS - B6HK

Three phase half-controlled rectifier

Preliminary Data

Ordering No. 08800494
Description SKS 1200F B6HK 800 V16 SU

Features

- Non-isolated power stacks
- SKN 1500/16 / SKT 760/16
- Heatsink P17/130
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

Typical Applications

- Soft charge
- Industrial heating

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_D	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$; No overload		1 200		A
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
V_{BUS}	DC Bus voltage			670		V_{DC}
P_{TOTAL}	Maximum stack power			800		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			12100422.01.A		-
Weight	Approximate total weight			46.2		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

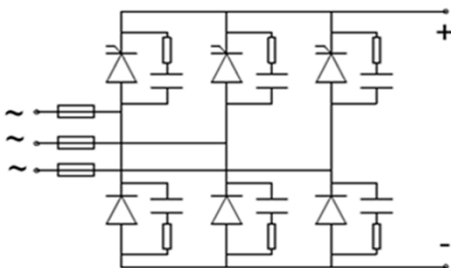
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with each electrical switch			-		-
R	Resistance (80W)			33		Ohm
C				0.47		μF

Fuses

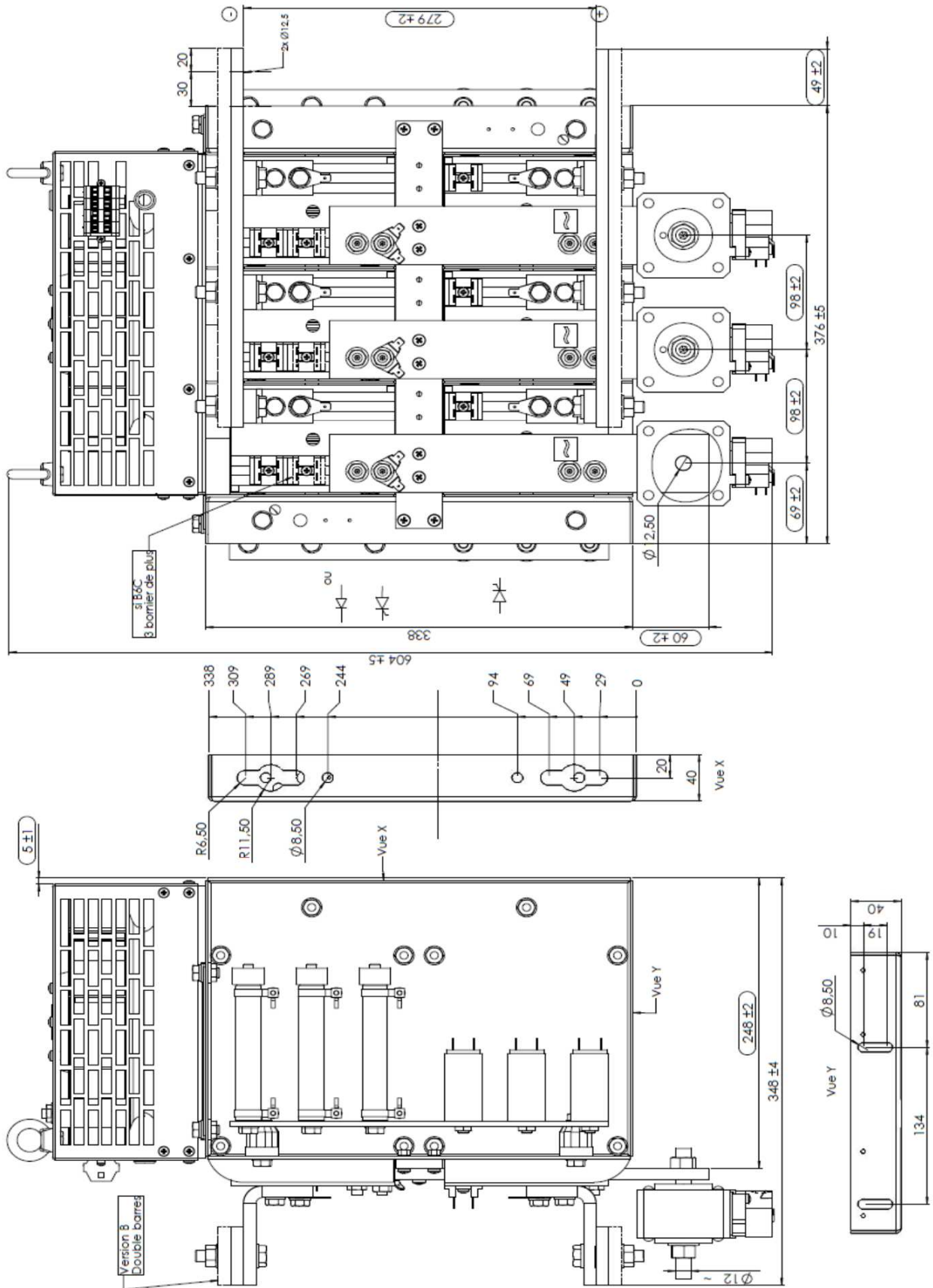
Size	1 fuse per phase, with microswitches	33	-
$I_{N RMS}$	Caliber	1 250	A
U_N	Nominal voltage (IEC)	690	V
I^2t	Total at U_N at room temperature (approx. 20...25°C)		1 942.5 kA^2s

Bimetal Thermal Trip

T_S	Switching temperature over which thermal trip is open		95	$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current		1	A
	at 30Vdc		3	A



B6HK



Dimensions

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