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

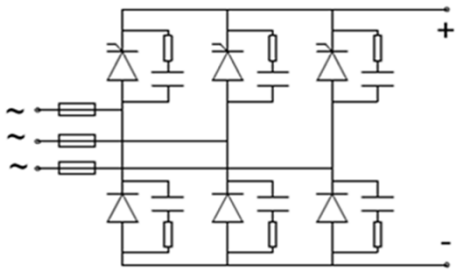
- Non-isolated power stacks
- SKN 1500/16 / SKT 760/16
- Heatsink P17/130
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

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.



B6HK

Electrical Characteristics						
Symbol	**Conditions**		**min**	**typ**	**max**	**Unit**
Electrical Data						
I_D	Maximum DC current	$T_{AMBIENT}$ = 35°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°C)					W

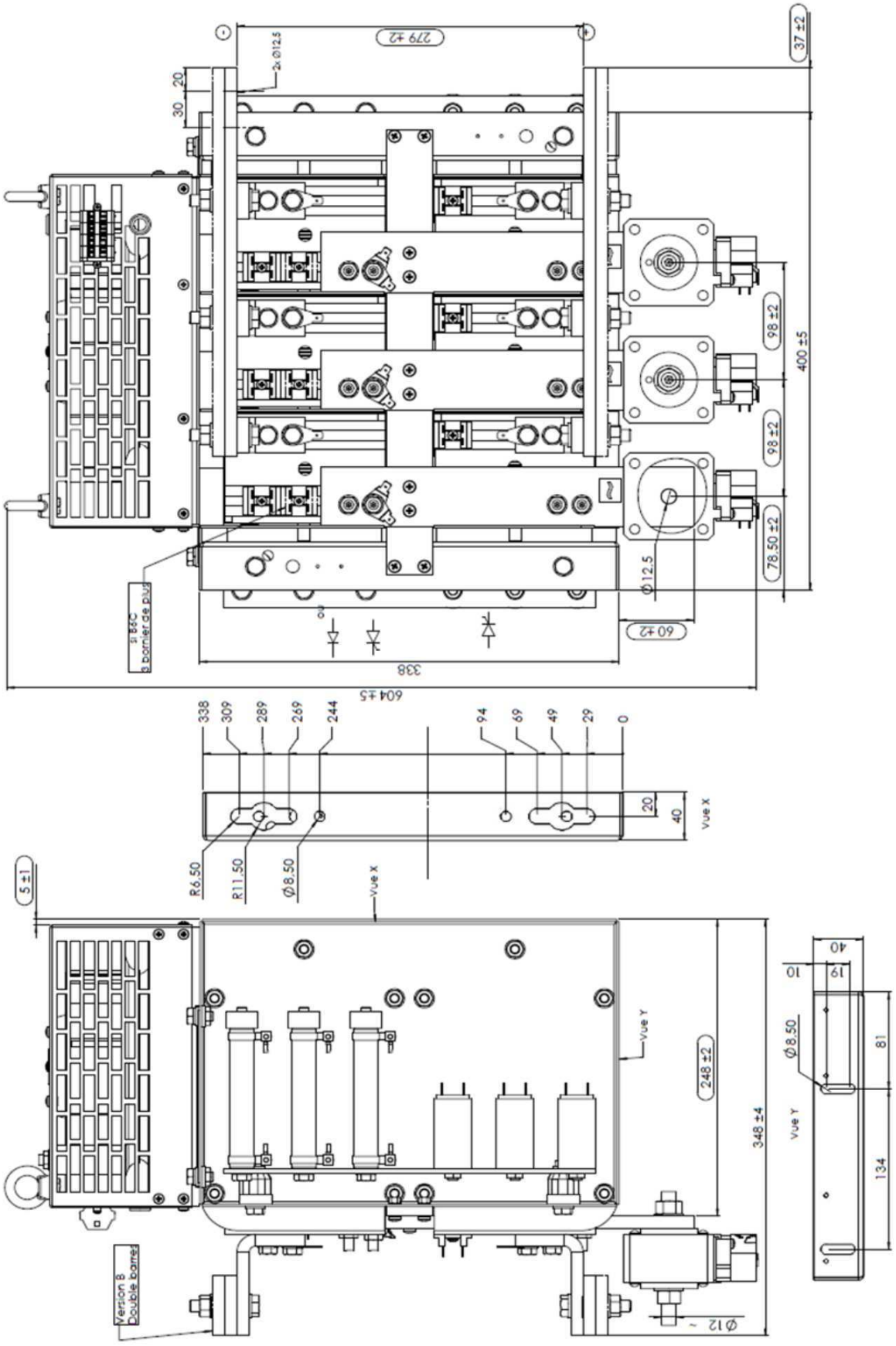
Environnmental Data					
Symbol	**Conditions**	**min**	**typ**	**max**	**Unit**
Mechanical Data					
Drawing	SEMIKRON document number.revision.version		**12100422.00.A**		-
Weight	Approximate total weight		46.2		kg
Altitude	Installation altitude without derating			1 000	m
Protection	IEC 60529		IP00		-
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 Un 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		°C
$I_{TC\ MAX}$	Maximum permissible current	at 240VAC	1		A
		at 30VDC	3		A



Dimensions