



Thyristor/Diode stack

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.B		-
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		μF

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	kA^2s

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 - B6HK

Three phase half-controlled rectifier

Preliminary Data

Ordering No. 08800488
Description SKS 2580F B6HK 1730 V16 ZU

Features

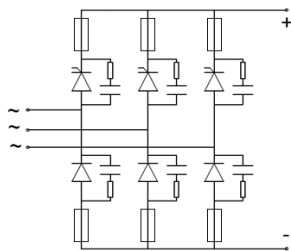
- Non-isolated power stacks
- AR2004 (SKN 2000) / SKT 1200/16
- Heatsink N4/250
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

Typical Applications

- Soft charge
- Industrial heating

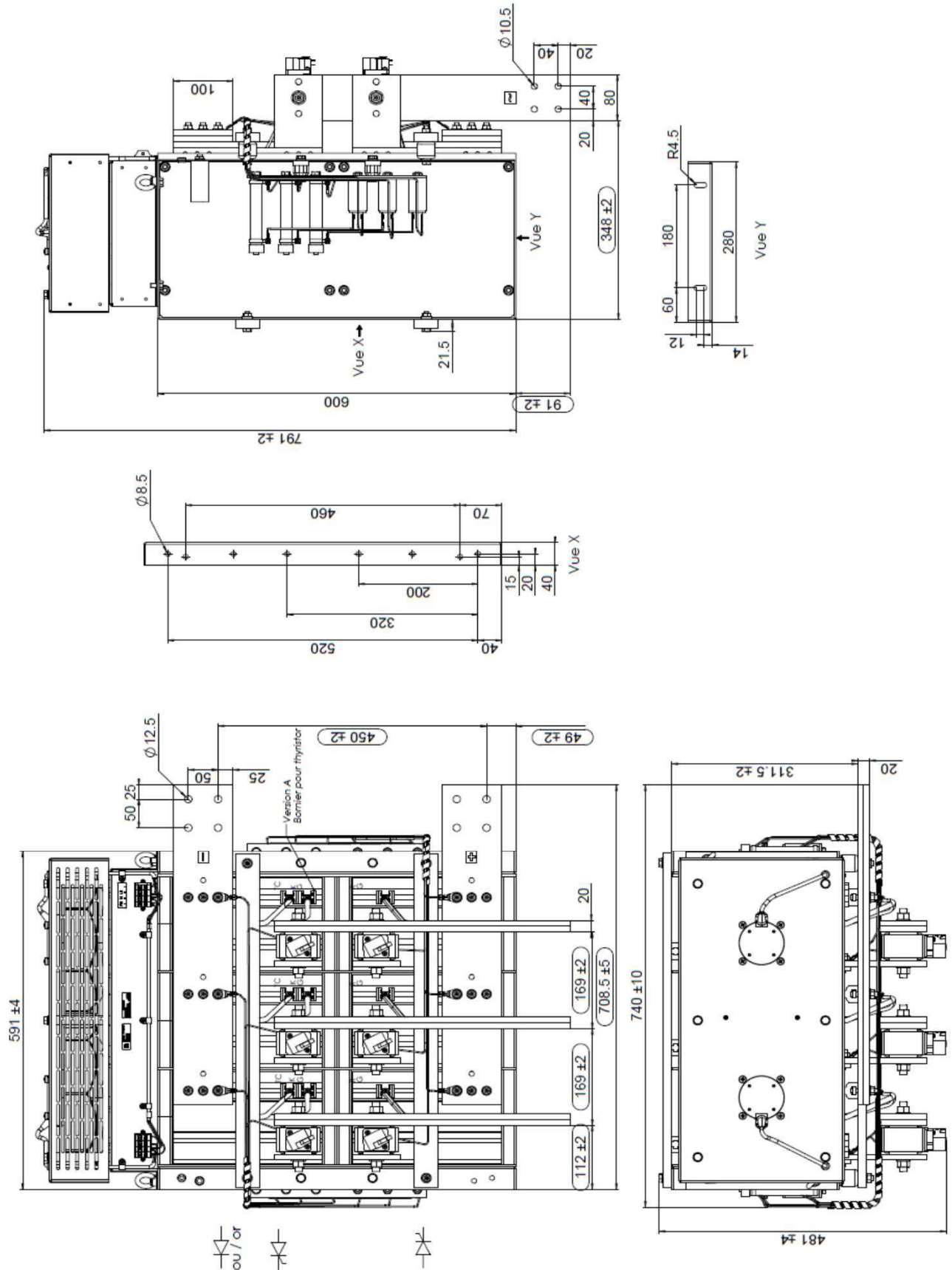
Remarks

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Dimensions

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