

Diode Presspack stack

SEMISTACK® CLASSICS - B6U

Three phase uncontrolled rectifier

Preliminary Data

Ordering No. 08785102
Description SKS 2300F B6U 1540 V16

Features

- Non-isolated power stacks
- SKN 1500/16
- Heatsink P18/180
- Forced air cooling
- RC circuit included
- Thermal trip included

Typical Applications

- Power supplies
- Rectifier for AC/DC 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.

Electrical Characteristics

Symbol	Conditions	min	typ	max	Unit
Electrical Data					
I_D	Maximum DC current $T_{AMBIENT} = 35^\circ\text{C}$; No overload		2 300		A
V_{AC}	Maximum AC voltage (+/-10%)		500		V_{AC}
V_{BUS}	DC Bus voltage		670		V_{DC}
P_{TOTAL}	Maximum stack power		1 540		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		12030212.01		-
Weight	Approximate total weight		85.6		kg
Altitude	Installation altitude without derating			1 000	m
Protection	IEC 60529		IP00		-
Pollution degree	EN 50178		2		-

Fan Data

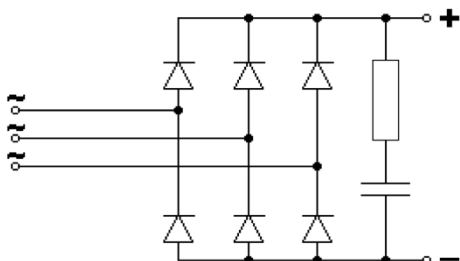
Type	SEMIKRON fan designation		SKF N4-230-01		-
V_{FAN}	Fan voltage		230		V_{AC}
f_{FAN}	Fan frequency		50/60		Hz
I_{FAN}	Fan maximum input current		0.69/0.98		A
P_{FAN}	Fan power		155/230		W

Stack Protection

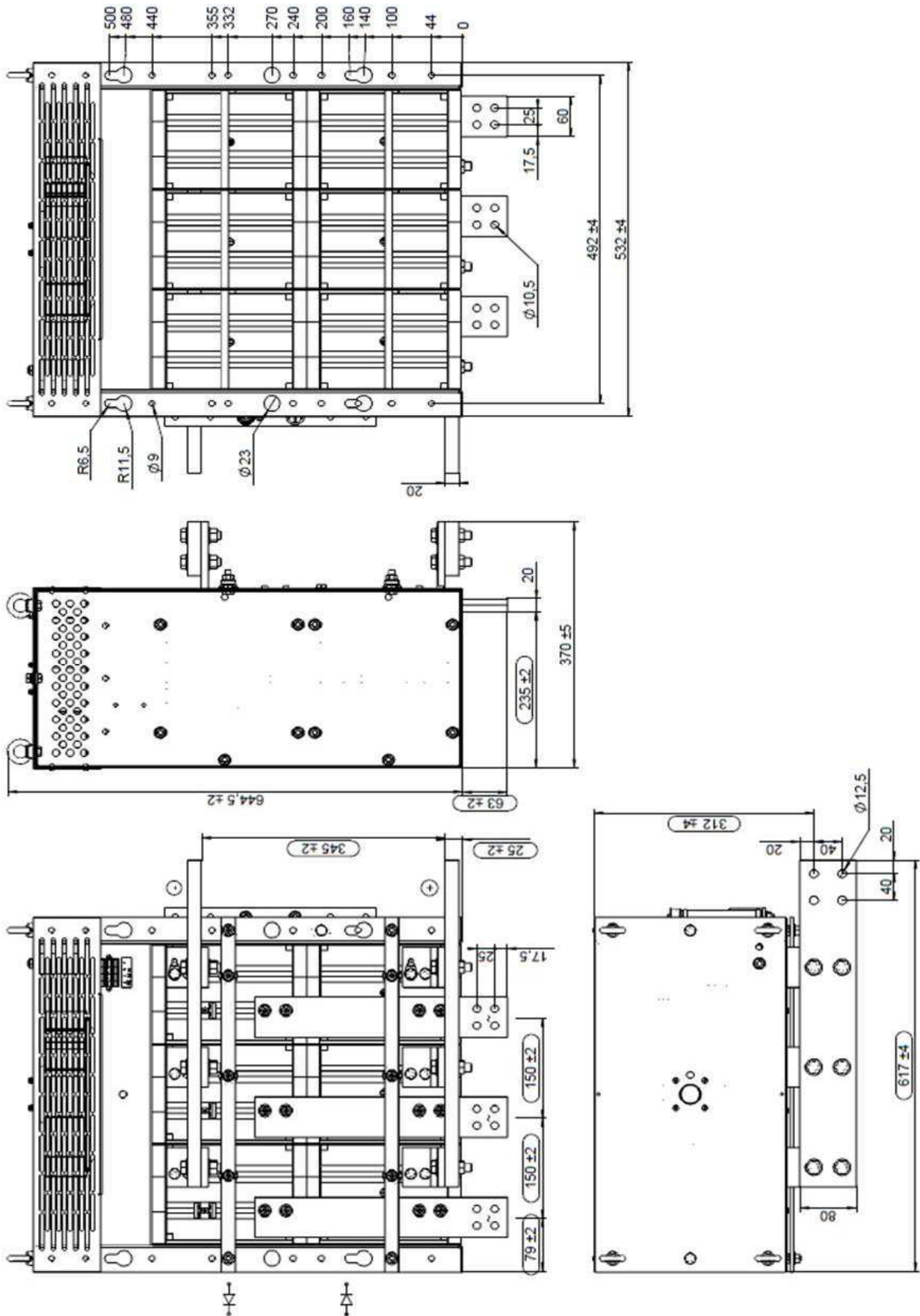
Symbol	Conditions	min	typ	max	Unit
RC Circuit					
Type	RC in parallel with bridge rectifier		-		-
R	Resistance (80W)		33		Ohm
C			0.47		μF

Bimetal Thermal Trip

T_S	Switching temperature over which thermal trip is open		110		$^\circ\text{C}$
$I_{TC\ MAX}$	Maximum permissible current	at 240VAC	1		A
		at 30Vdc	3		A



B6U



Dimensions

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