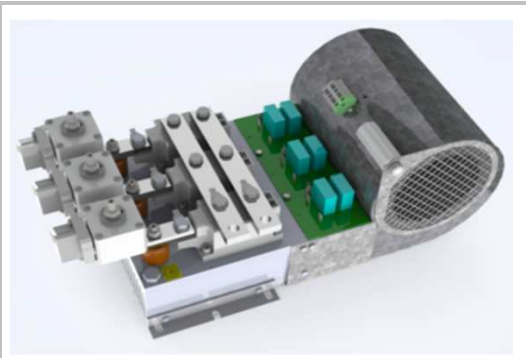


# SKS 640F B6HK 430 V16 SU



Thyristor/Diode Module stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
$I_D$	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$ ; No overload		640		A
$V_{AC}$	Maximum AC voltage (+/-10%)			500		$V_{AC}$
$V_{BUS}$	DC Bus voltage			670		$V_{DC}$
$P_{TOTAL}$	Maximum stack power			430		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			15.5		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
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		$\mu F$

Fuses						
Symbol	Conditions		min	typ	max	Unit
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						
Symbol	Conditions		min	typ	max	Unit
$T_S$	Switching temperature over which thermal trip is open			85		$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current			1		A
				3		A

## SEMISTACK® CLASSICS - B6HK

Three phase half-controlled rectifier

### Preliminary Data

Ordering No. 08800511  
Description SKS 640F B6HK 430 V16 SU

### Features

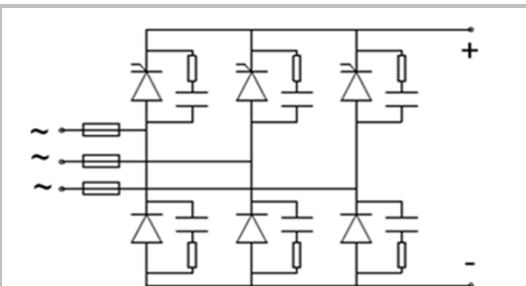
- Isolated power stacks
- SKKH 330/16
- Heatsink P16/200
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

### Typical Applications

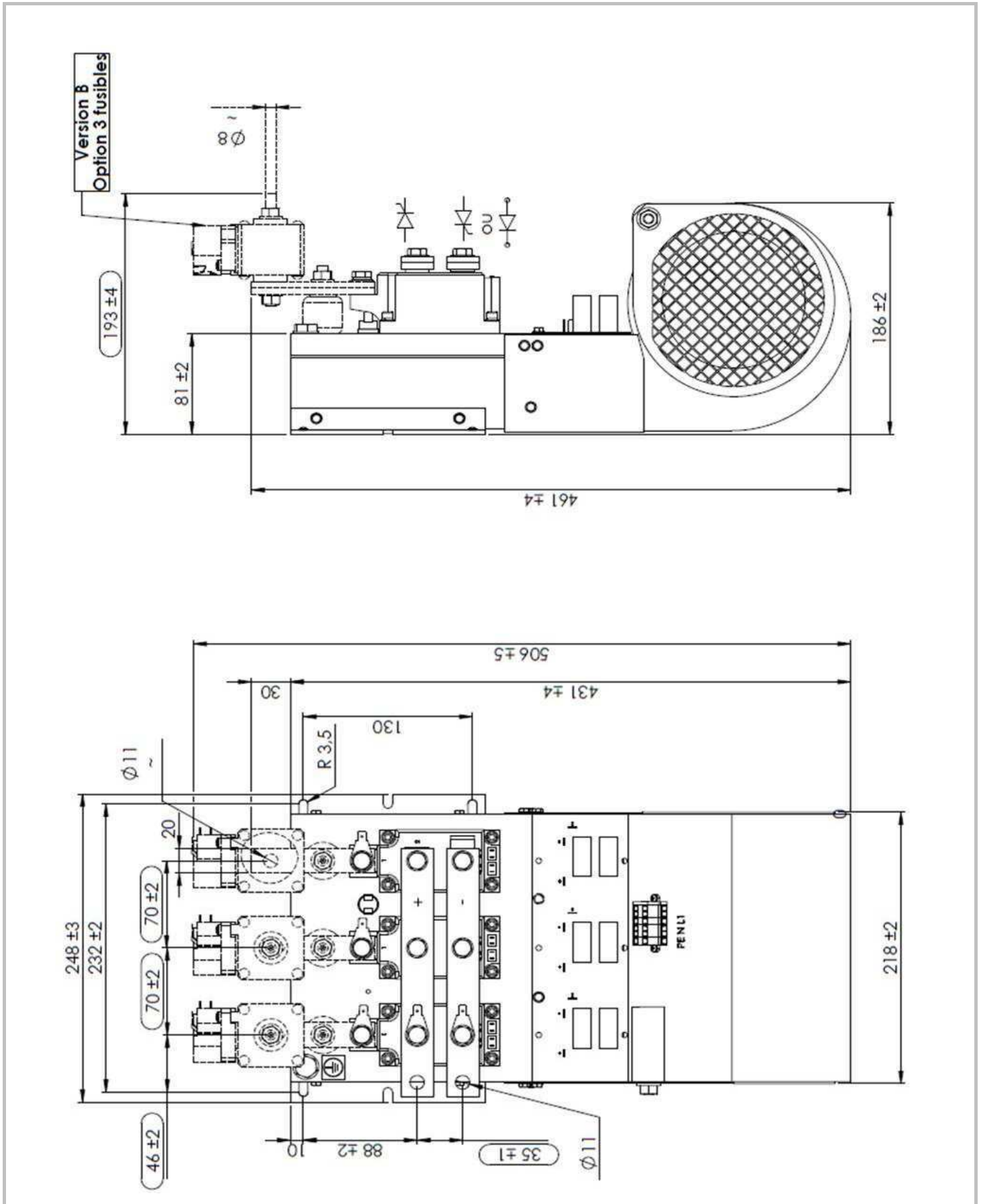
- Soft charge
- Industrial heating

### 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



Dimensions

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.