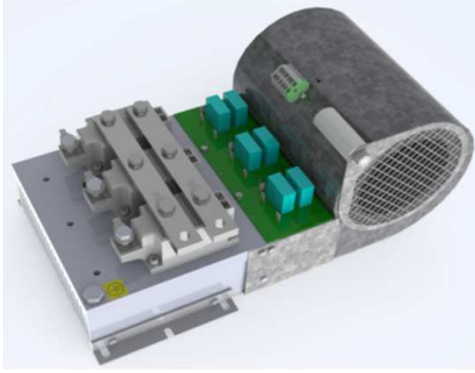


SKS 640F B6HK 430 V16



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.A | | - |
| Weight | Approximate total weight | | | 13.6 | | 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 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 | | μF |

| | | | | | | |
|----------------------|-------------------------------------------------------|--|--|----|--|-------------|
| Bimetal Thermal Trip | | | | | | |
| T_S | Switching temperature over which thermal trip is open | | | 85 | | $^{\circ}C$ |
| $I_{TC MAX}$ | Maximum permissible current | | | 1 | | A |
| | at 30Vdc | | | 3 | | A |

SEMISTACK® CLASSICS - B6HK

Three phase half-controlled rectifier

Preliminary Data

Ordering No. 08800510
Description SKS 640F B6HK 430 V16

Features

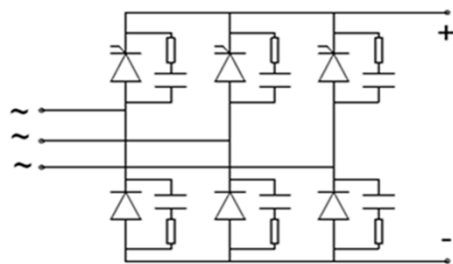
- Isolated power stacks
- SKKH 330/16
- Heatsink P16/200
- Forced air cooling
- RC circuit included
- Thermal trip included

Typical Applications

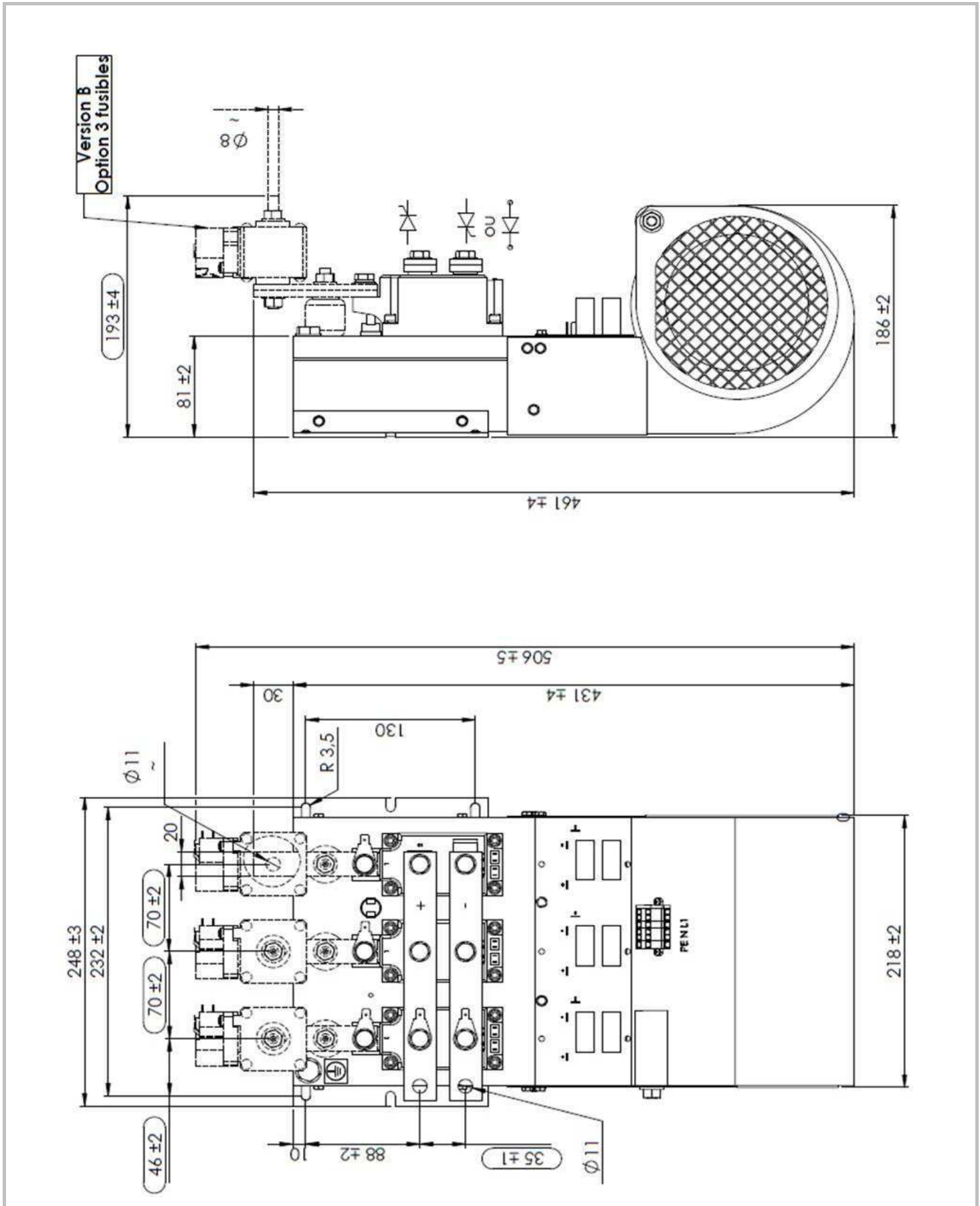
- Soft charge
- Industrial heating

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.