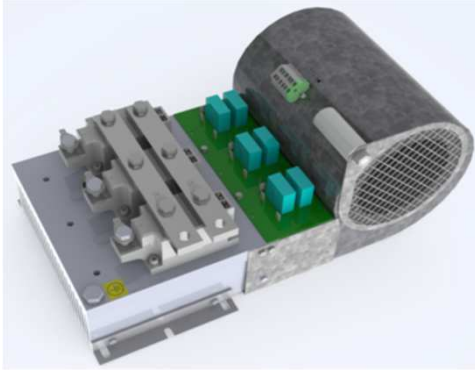


# SKS 640F B6HK 430 V16



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 |     | $\mu F$ |

|                      |   |          |  |    |  |             |
|----------------------|---|----------|--|----|--|-------------|
| 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 240VAC   |          |  | 3  |  | A           |
|                      |   | at 30Vdc |  |    |  |             |

## SEMISTACK® CLASSICS - B6HK

Three phase half-controlled rectifier

### Preliminary Data

Ordering No. 08800510  
Description SKS 640F B6HK 430 V16

### Features

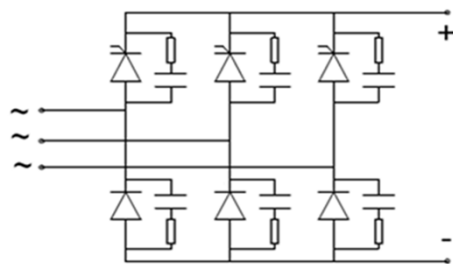
- Isolated power stacks
- SKKH 330/16
- Heatsink P16/200
- Forced air cooling
- RC circuit included
- Thermal trip included

### Typical Applications

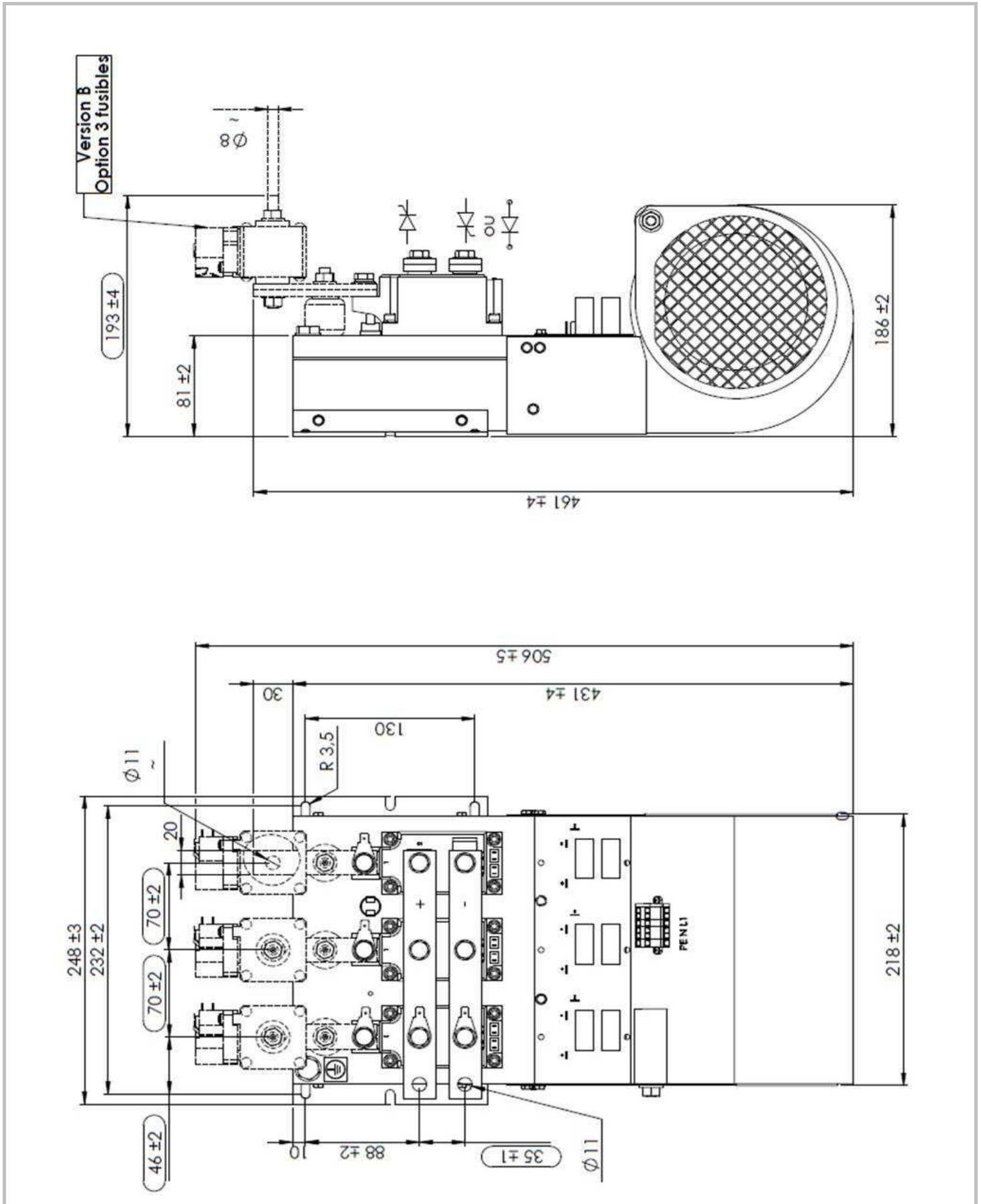
- Soft charge
- Industrial heating

### 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

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