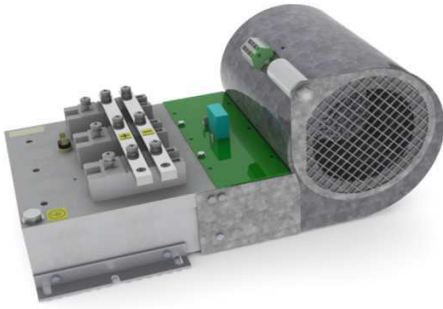


# SKS 430F B6U 290 V16



Diode Presspack stack

## SEMISTACK® CLASSICS - B6U

Three phase uncontrolled rectifier

### Preliminary data

Ordering No. 08785122  
Description SKS 430F B6U 290 V16

### Features

- Isolated power stacks
- SKKD 162/16
- Heatsink P16/200 SPack2
- 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                                    | $T_{amb} = 35^\circ\text{C}$ ; No overload |     | 430 |     | A        |
| $V_{AC}$        | Maximum AC Voltage (+/-10%)                           |  |     | 500 |     | $V_{AC}$ |
| $V_{BUS}$       | DC Bus voltage  |  |     | 670 |     | $V_{DC}$ |
| $P_{TOTAL}$     | Maximum stack power                                   |  |     | 290 |     | 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 |  |     | 11091206.00.A |       | -    |
| Weight           | Approximative total weight                |  |     | 11,5          |       | 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

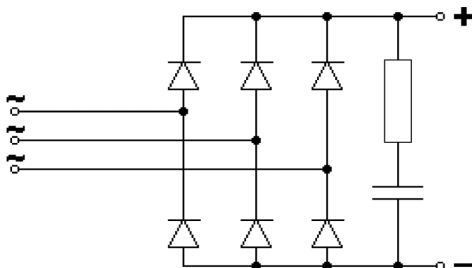
| Symbol     | Conditions                           |  | min | typ      | max | Unit          |
|------------|--------------------------------------|--|-----|----------|-----|---------------|
| RC circuit |                                      |  |     |          |     |               |
| Type       | RC in parallel with bridge rectifier |  |     | 1/6 RC47 |     | -             |
| R          | Resistance (11W)                     |  |     | 47       |     | Ohm           |
| C          |                                      |  |     | 0.22     |     | $\mu\text{F}$ |

### Fuses

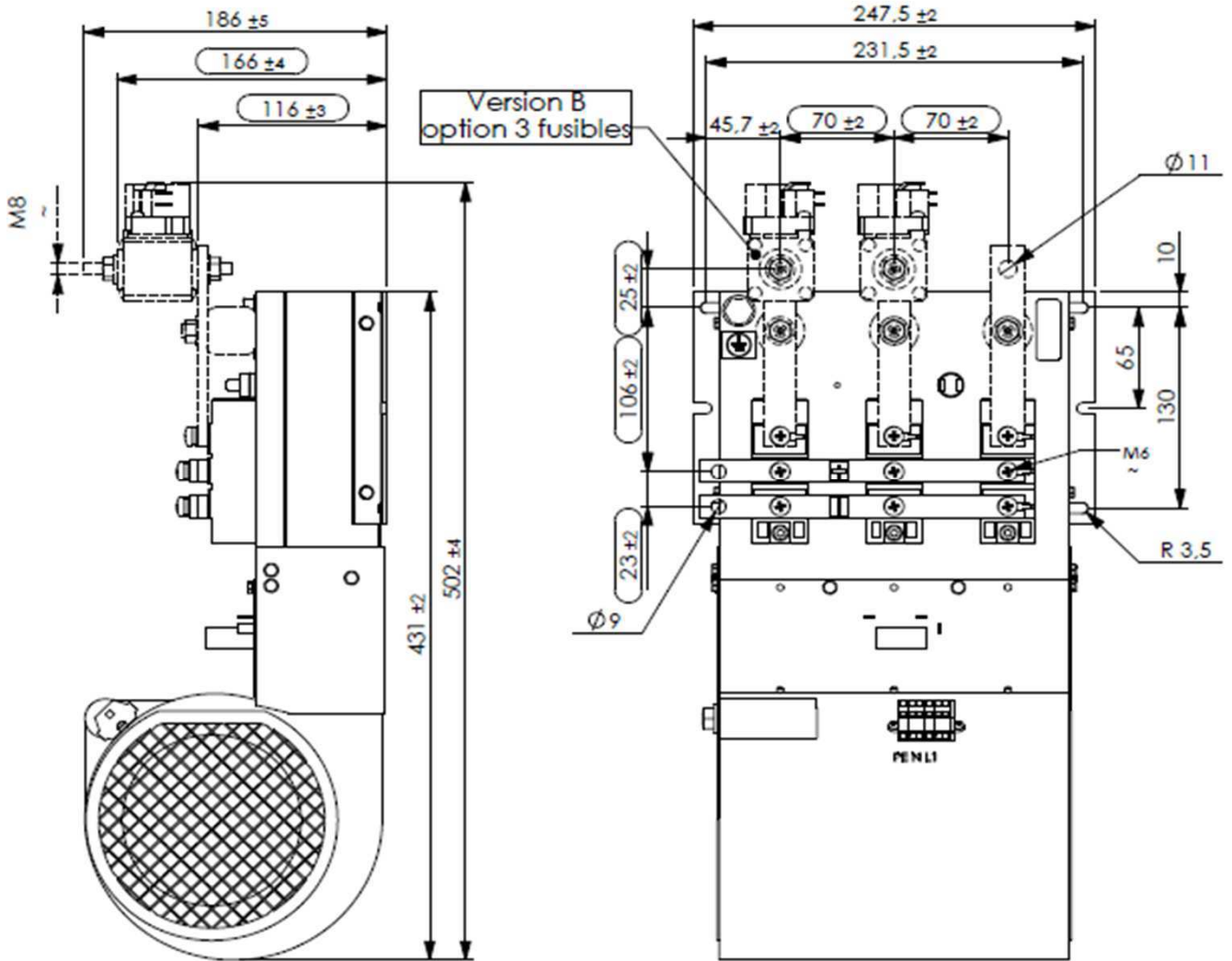
|                   |  |   |                       |
|-------------------|--|---|-----------------------|
| Size              | No Fuses   | - | -                     |
| $I_{N\text{RMS}}$ | Caliber  | - | A                     |
| $U_N$             | Nominal Voltage (IEC)                                  | - | V                     |
| $I^2t$            | Total at $U_N$ at room temperature (approx. 20...25°C) | - | $\text{kA}^2\text{s}$ |

### Bimetal thermal trip

|                    |   |  |    |                  |
|--------------------|---|--|----|------------------|
| $T_S$              | Switching temperature over which thermal trip is open |  | 75 | $^\circ\text{C}$ |
| $I_{TC\text{MAX}}$ | Maximum permissible current                           |  | 1  | A                |
|                    |   |  | 3  | A                |



B6U



Dimensions

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