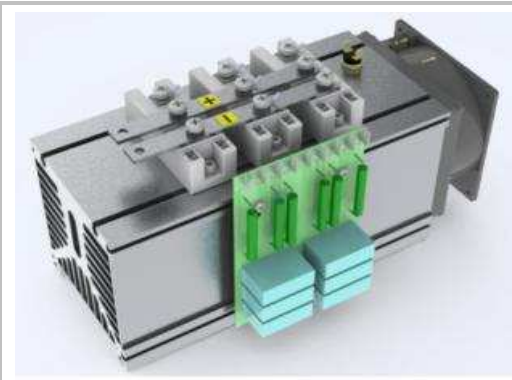


SKS 250F B6C 170 V16



Thyristor Module stack

| Electrical Characteristics | | | | | | |
|----------------------------|--|---|-----|-----|-----|----------|
| Symbol | Conditions | | min | typ | max | Unit |
| Electrical Data | | | | | | |
| I_D | Maximum DC current | $T_{AMBIENT} = 35^{\circ}C$; No overload | | 250 | | A |
| V_{AC} | Maximum AC voltage (+/-10%) | | | 500 | | V_{AC} |
| V_{BUS} | DC Bus voltage | | | 670 | | V_{DC} |
| P_{TOTAL} | Maximum stack power | | | 170 | | 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 | | | 12101602.00.A | | - |
| Weight | Approximate total weight | | | 6.96 | | 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 3-230-01 | | - |
| V_{FAN} | Fan voltage | | | 230 | | V_{AC} |
| f_{FAN} | Fan frequency | | | 50/60 | | Hz |
| I_{FAN} | Fan maximum input current | | | 0.12/0.10 | | A |
| P_{FAN} | Fan power | | | 15/14 | | W |

| Stack Protection | | | | | | |
|------------------|--|--|-----|-------------|-----|---------|
| Symbol | Conditions | | min | typ | max | Unit |
| RC Circuit | | | | | | |
| Type | RC in parallel with each electrical switch | | | RC32 | | - |
| R | Resistance (11W) | | | 100 | | Ohm |
| C | | | | 0.1 | | 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 - B6C

Three phase controlled rectifier

Preliminary Data

Ordering No. 08785026
Description SKS 250F B6C 170 V16

Features

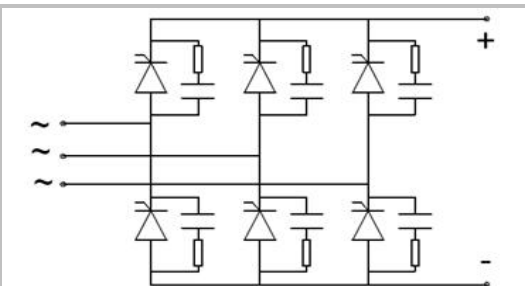
- Isolated power stacks
- SKKT 162/16
- Heatsink P3/265
- Forced air cooling
- RC circuit included
- Thermal trip included

Typical Applications

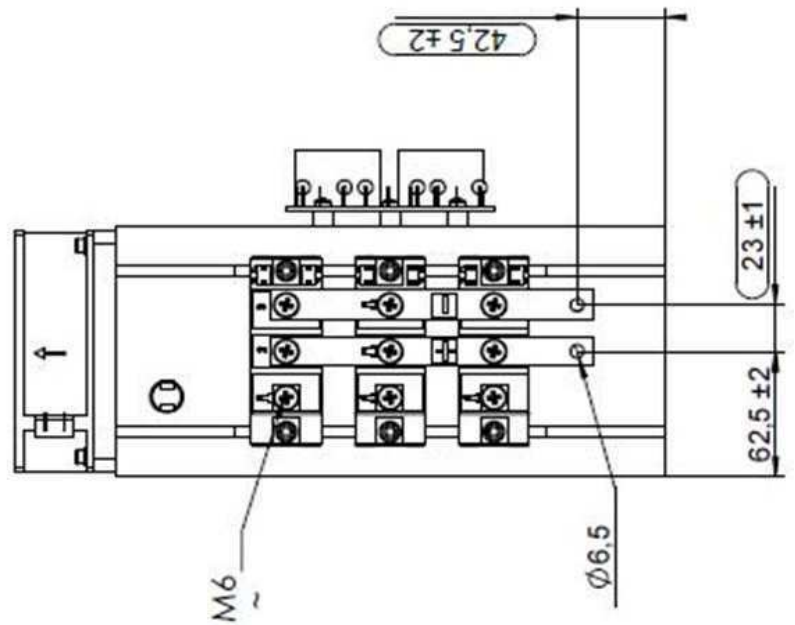
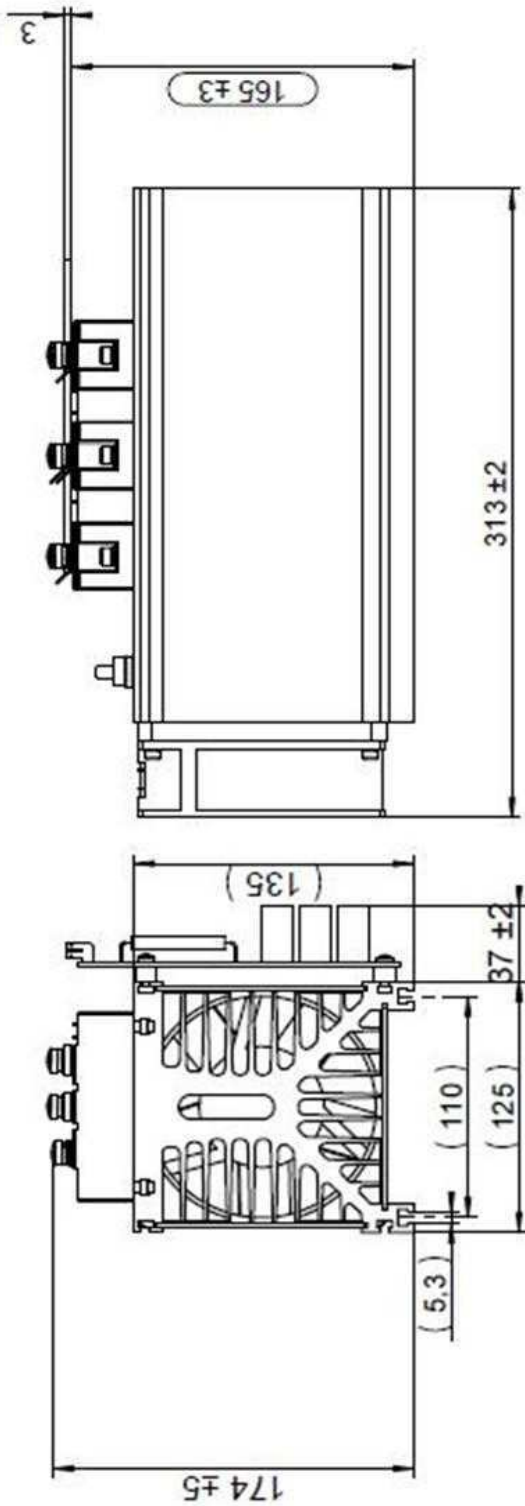
- Regulated power supplies
- Alternator excitation
- Motor control

Remarks

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B6C



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.