



Thyristor Presspack stack

## SEMISTACK® CLASSICS - W3C

Three phase reverse parallel thyristor converter

### Preliminary Data

Ordering No. 08785200  
Description SKS 2150F W3C 1860 V16

### Features

- Non-isolated power stacks
- SKT 1200/16
- Heatsink N4/250
- Forced air cooling
- RC circuit included
- Thermal trip included

### Typical Applications

- Soft starters

### 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            |  |                                       |     |       |     |           |
| $I_{OUT}$                  | Maximum output current                           | $T_{amb} = 35^{\circ}C$ ; No overload |     | 2 150 |     | $A_{RMS}$ |
| $V_{AC}$                   | Maximum AC voltage (+/-10%)                      |                                       |     | 500   |     | $V_{AC}$  |
| $P_{TOTAL}$                | Maximum stack power                              |                                       |     | 1 860 |     | kW        |
| $P_{LOSS}$                 | Stack power loss ( $T_{AMBIENT} = 35^{\circ}C$ ) |                                       |     |       |     | W         |

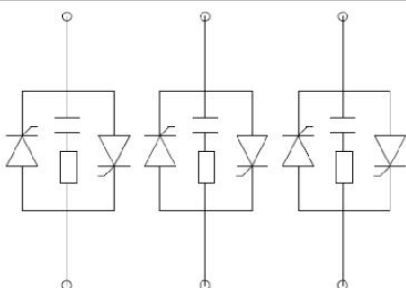
| Environmental Data |   |  |     |              |       |      |
|--------------------|---|--|-----|--------------|-------|------|
| Symbol             | Conditions                                |  | min | typ          | max   | Unit |
| Mechanical Data    |   |  |     |              |       |      |
| Drawing            | SEMIKRON document number.revision.version |  |     | 12100542.01. |       | -    |
| Weight             | Approximate total weight                  |  |     | 131,5        |       | 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 N4-230-03 | -        |
| $V_{FAN}$ | Fan voltage               | 230           | $V_{AC}$ |
| $f_{FAN}$ | Fan frequency             | 50/60         | Hz       |
| $I_{FAN}$ | Fan maximum input current | 1.1/1.71      | A        |
| $P_{FAN}$ | Fan power                 | 250/390       | W        |

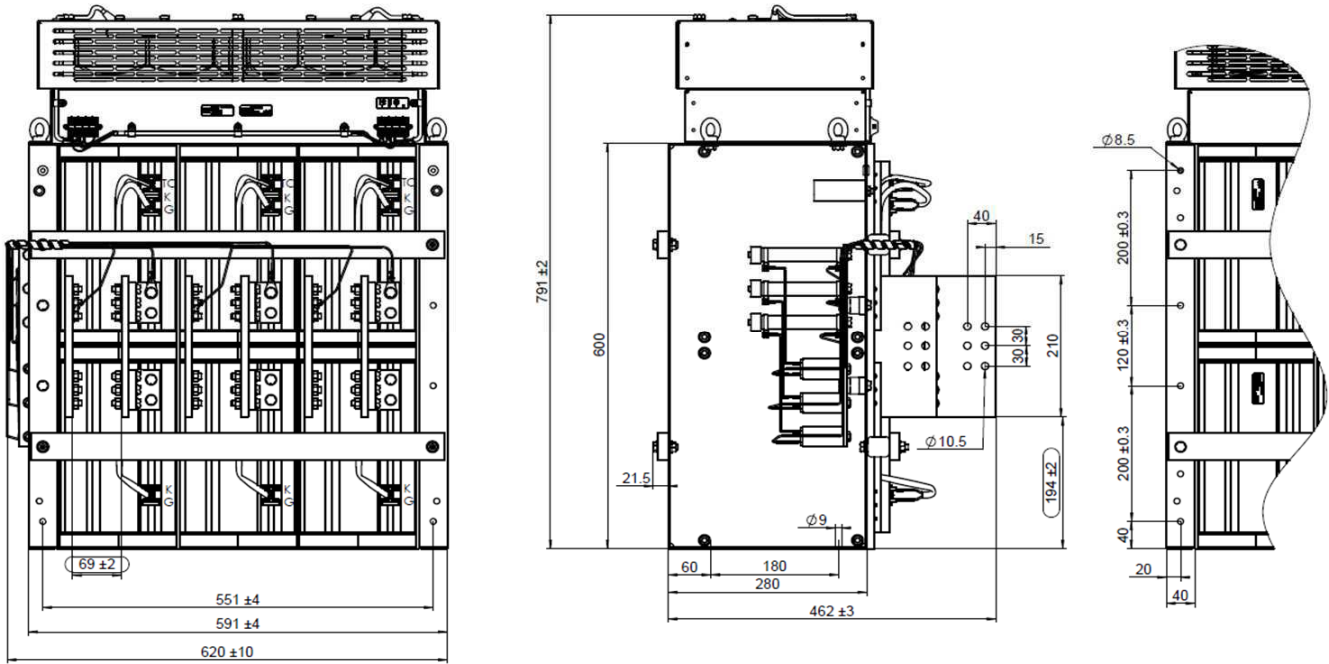
| Stack Protection |                                 |  |     |      |     |         |
|------------------|---------------------------------|--|-----|------|-----|---------|
| Symbol           | Conditions                      |  | min | typ  | max | Unit    |
| RC Circuit       |                                 |  |     |      |     |         |
| Type             | RC in parallel with each switch |  |     | -    |     | -       |
| R                | Resistance (80W)                |  |     | 33   |     | Ohm     |
| C                |                                 |  |     | 0.47 |     | $\mu F$ |

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

| Bimetal Thermal Trip |   |    |             |
|----------------------|---|----|-------------|
| $T_S$                | Switching temperature over which thermal trip is open | 85 | $^{\circ}C$ |
| $I_{TC MAX}$         | Maximum permissible current at 240VAC                 | 1  | A           |
|                      | at 30Vdc  | 3  | A           |



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Dimensions

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