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КАТАЛОГ SEMIKRON 2017/2018 МИНСК

модуль semikron, igbt, мост диодный

купить, продажа

Охладитель, радиатор,

kl-285-p120 (алюминий + силумин) - охладитель, размер 115x125x135мм

радиатор предназначен для изолированных силовых модулей, semipack 1

semipack 2

semipack 3

semipack 4

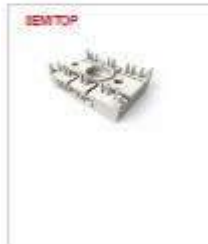
semitrans 2

встроенные направляющие позволяют легко монтировать модули

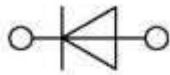
вентилятор: skf 3-230-01 (30031061)

включает отверстия (4x для монтажа вентилятора + 1x для теплового выключателя)

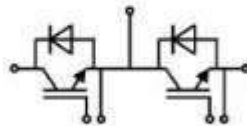
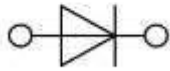
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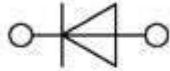
Power Bridge Rectifiers



SEMISTACK Classics



SEMPONT



SEMITEACH



SEMIX



PT 22b3 RoHS

Pulse Transformer

Part Number: 97492890

Manufacturer: SEMIKRON

[datasheet](#)

[Product Details >>](#)

● Current delivery time approx. 10 weeks



Axial fan 230V 119x38m 150m3/h

Fan

V 230 V

Part Number: 30031061

Manufacturer: SEMIKRON

[datasheet](#)




Thermal paste P12

Thermal paste

Part Number: 31867700

Manufacturer: SEMİKRON

 datasheet

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Standard P3 and P16 heatsinks

P3.....	1
Fan SKF 3-230-01	2
P16.....	3
Fan SKF 16 B-230-01.....	3
SEMISEL Simulation tool.....	4

P3

Intended for isolated power modules: **SEMIPACK (1 to 4)**, **SEMITRANS 2** range (also some **SEMIPONT**)

Integrated rails allow easy mounting of the modules (80mm distance between rails)

Best fitted fan: [SKF 3-230-01](#)

Available in various lengths (standard 120mm → P3/120; 180mm → P3/180; 300mm → P3/300)

SEMIPACK1 → width=20mm;
SEMIPACK2 → width=34mm;
SEMIPACK3 → width=50mm;
SEMIPACK4 → width=50mm;
SEMITRANS2 → width=34mm;

P3/120 (Weight=2,1kg)

Examples:

1 SEMIPACK1 (100W) → $R_{th}(h-a)=0,55K/W$ (natural); $R_{th}(h-a)=0,167K/W$ (with fan)
3 SEMIPACK1 (150W) → $R_{th}(h-a)=0,43K/W$ (natural); $R_{th}(h-a)=0,147K/W$ (with fan);

P3/180 (Weight=3,1kg)

Examples:

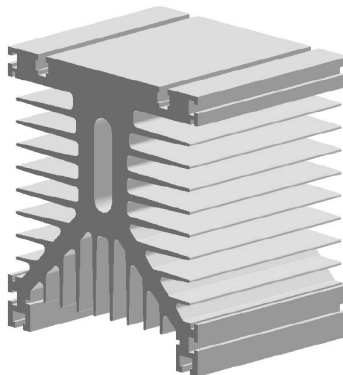
2 SEMIPACK1 (150W) → $R_{th}(h-a)=0,39K/W$ (natural); $R_{th}(h-a)=0,132K/W$ (with fan)
3 SEMIPACK1 (180W) → $R_{th}(h-a)=0,36K/W$ (natural); $R_{th}(h-a)=0,12K/W$ (with fan)
6 SEMIPACK1 (200W) → $R_{th}(h-a)=0,33K/W$ (natural); $R_{th}(h-a)=0,108K/W$ (with fan)
1 SEMIPACK2/SEMITRANS2 → $R_{th}(h-a)=0,144K/W$ (with fan)
3 SEMIPACK2/SEMITRANS2 → $R_{th}(h-a)=0,118K/W$ (with fan)

P3/300 (Weight=5,3kg)

Examples:

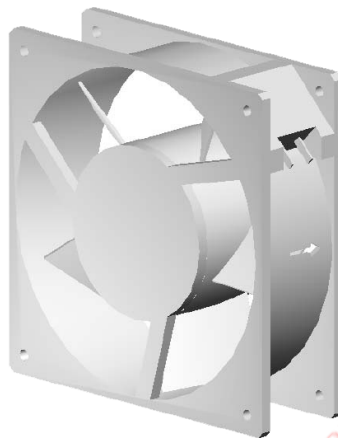
3 SEMIPACK2/SEMITRANS2 → $R_{th}(h-a)=0,0847K/W$ (with fan)

For more details (also other module combinations with or w/o fan) please see the diagrams Fig.3a, Fig.3b, Fig.6 and Fig.7 in the P3 datasheet.



Fan SKF 3-230-01

SEMIKRON part number 30031061
Can be used in both directions (extraction or blowing)
f = 50/60Hz
Voltage = 230V
Max. volume = 159/190 m³/h
P = 15/14W
Max. Tamb = 70°C
Weight = 0,55kg
Noise = 37/41dB
Size: height=119mm; width=119mm; depth=38;



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P16

Intended for all isolated power modules: **SEMIPACK, SEMITRANS, SEMIPONT, SKiM, SEMiX, SKiIP**

Excellent efficiency/volume ratio

Best suited fan: [SKF 16-B-230-01](#)

Available in various lengths (standard 200mm → P16/200; 300mm → P16/300)

P16/200 (Weight=4,7kg)

Examples:

3 SEMIPACK1 → $R_{th}(h-a)=0,046K/W$ (with fan)

6 SEMIPACK1 → $R_{th}(h-a)=0,039K/W$ (with fan)

3 SEMIPACK2/SEMITRANS2 → $R_{th}(h-a)=0,038K/W$ (with fan)

2 SEMIPACK3/SEMIPACK4 → $R_{th}(h-a)=0,04K/W$ (with fan)

3 SEMIPACK3/SEMIPACK4 → $R_{th}(h-a)=0,033K/W$ (with fan)

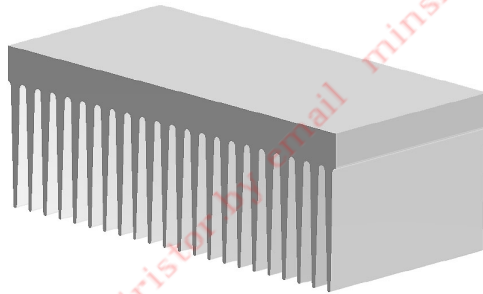
P16/300 (Weight=7kg)

Examples:

6 SEMIPACK2/SEMITRANS2 → $R_{th}(h-a)=0,036K/W$ (with fan)

6 SEMIPACK3/SEMIPACK4 → $R_{th}(h-a)=0,024K/W$ (with fan)

For more details (also other module combinations with or w/o fan) please see the diagrams Fig.6a, Fig.6b and Fig.6c in the P16 datasheet.



Fan SKF 16 B-230-01

SEMIKRON part number 30119362

Low noise level

Long-life, maintenance free ball bearings

Blowing fan

$f = 50/60Hz$

Voltage = 230V

Max. volume = 610/565 m³/h

$P = 170/197W$

Max. Tamb = 40°C

Weight = 3,6kg

Noise = 58/57dB

Size: 238 x 216 x 182,5mm



SEMISEL Simulation tool

Although the examples above might help you to find out the suitable length of the P3 and P16 heatsink for your specific application, you can simulate power module(s) mounted on the heatsink at a power (current and voltage) and temperature specified by you by using the SEMISEL simulation tool.

Link to SEMISEL:

<http://shop.semikron.com/Service-and-Support/Knowledge-Base/SEMISEL/>

Choose „Step by Step design“, select “I accept the license term” and “Go anonymus”.

Example

Topology: AC/DC → B6U

The image shows two screenshots from the SEMISEL simulation software. The left screenshot displays the 'Semisel - Simulation Software' interface with a circuit diagram of a six-diode bridge rectifier (D1-D6) and an input current I_{in} . The right screenshot shows the 'AC/DC Converter' configuration screen, which includes fields for 'Voltage range' (minimum voltage: 1000 V, recommended voltage: 1400 V), 'Select your package and device' (options: SEMIPACK, Single rectifier, SEMIPONT, MiniSKIP), and 'Select the calculation range' (options: Use typical values, use maximum values). The SEMIPACK option is selected, and the device SKKD81 is chosen. There are 'Back' and 'Next' buttons at the bottom of the configuration screen.

In “Input parameters” change the necessary fields to adapt the values to your application requirements. For this example, just change the field “output current” to 80A.

In the next step, select a package (e.g. SEMIPACK) and device (e.g. SKKD81).

For the cooling, select “predefined type”; for this example, if you simulate (button “Calculate”) the heatsink P3/180 with natural air cooling, you will see that this option is valid.

Usually it is possible to take a shorter version of a heatsink and add a fan to have a similar $R_{th}(h-a)$ value with fewer space.

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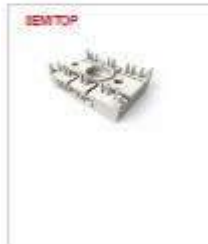
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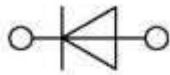
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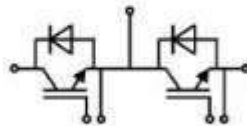
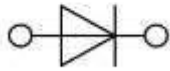
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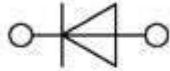
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