DIODE MODULE – MOD…P

POWER BLOCK – photo 1

POWER BLOCK – photo 2

POWER BLOCK – photo 3

SINGLE-ELEMENT DIODE
POWER BLOCK WITH HEATSINK.

Characteristics:

- single-element diode power module double-sided heat sink
- natural cooling

Application:

- rectifiers
- power supplies

Options:

- standard (photo 1)
- with black anodized heat sink (photo 2)
- special option (photo 3)
- thermal protection
- RC system
- fuses
- forced cooling

Selection of power blocks:

Depending on the load of power block there are used different semiconductors. The size of applied semiconductor is specified in Table 1.

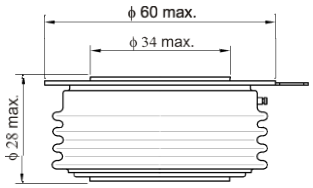
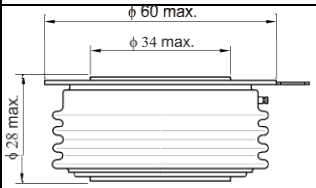
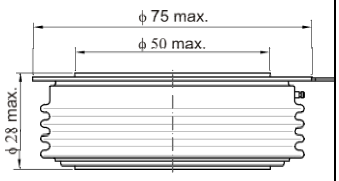
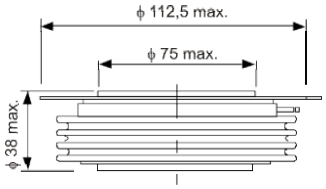
Working conditions:

Single-element power blocks are assigned to work in power electronic inverter systems:

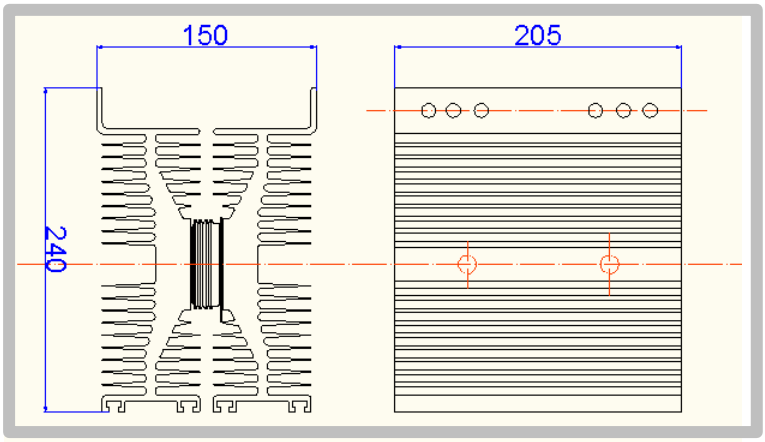
- temperature of ambient air: -10^0C – $+40^0$C;
- atmospheric pressure: 860hPa – 1060hPa;
- relative humidity not higher than 80% for temperature 40^0C;
- cooling air without aggressive chemical agents nor conductive dust.

Configuration:

Table 1: Technical parameters

Type of module	Average current of semiconductor $I_{T(AV)}$ [A]	Repetitive peak reverse voltage of semiconductor U_{DRM}, U_{RRM} [V]	Non-repetitive surge current I_{TSM} [A]	Dimensions of applied semiconductor [mm]	Mass of block [kg]
MOD7P	450…650	400…2400	7000…10000		7,80
MOD8P	630…1000	400…8500	10000…24000		8,20
MOD9P	1000…2000	400…7500	20000…42000		10
MOD11P	1000…3200	400…6000	27000…65000		12

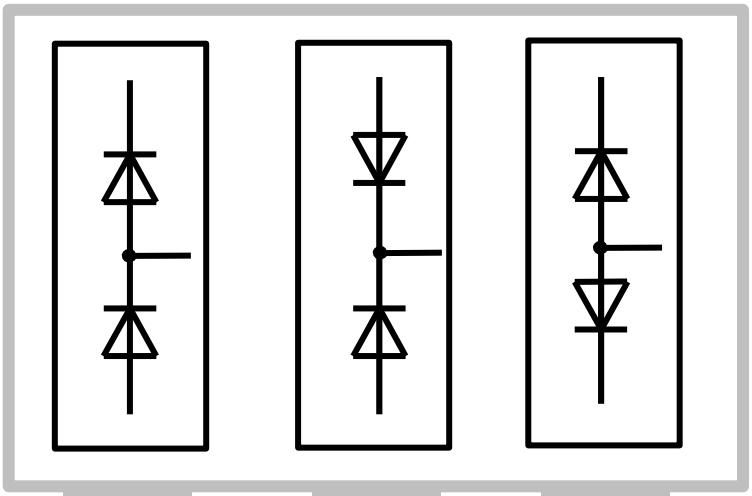
Scheme of power blocks type MOD…P



Proper assembly and application of electrical corresponding power semiconductors are the most important factors influencing quality, durability and reliability of power blocks.

DOUBLE-DIODE MODULE – MOC...P

POWER BLOCK – photo1



MOC **MOK** **MOA**

DOUBLE-DIODE POWER BLOCK WITH HEAT SINK

Characteristics:

- double-diode power module with double-sided cooling
- natural cooling

Applications:

- rectifiers
- power supplies

Options:

- standard version (photo 1)
- with bus bars
- with black anodized heat sink
- thermal protection
- RC system
- fuse
- forced cooling

Selection of power blocks:

Depending on the load of power block there are used different semiconductors. Size of the applied semiconductor is specified in Table 1.

Working conditions:

Double-element power blocks are assigned to work in power electronic inverter systems:

- temperature of ambient air: -10^0C – $+40^0$C
- atmospheric pressure: 860hPa – 1060hPa
- relative humidity not higher than 80% for temperature 40^0C
- cooling air without aggressive chemical agents nor conductive dust

Table 1: Technical parameters

Type of module	Average current of semiconductor $I_{T(AV)}$ [A]	Repetitive peak reverse voltage of semiconductor U_{DRM}, U_{RRM} [V]	Non-repetitive surge current I_{TSM} [A]	Dimensions of applied semiconductor [mm]	Mass of block [kg]
MOC7P	450…650	400…2400	7000…10000		13,80
MOC8P	630…1000	400…8500	10000…24000		14,20
MOC9P	1000…2000	400…7500	20000…42000		16,40
MOC11P	1000…3200	400…6000	27000…65000		18,30

Scheme of power blocks — type MOC...P