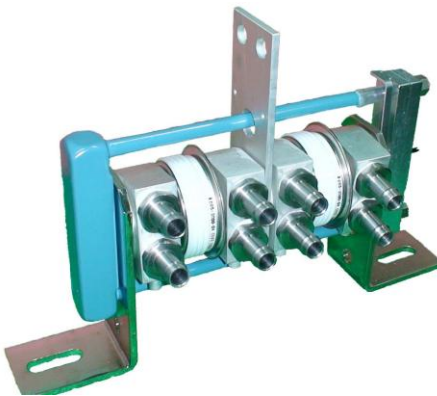
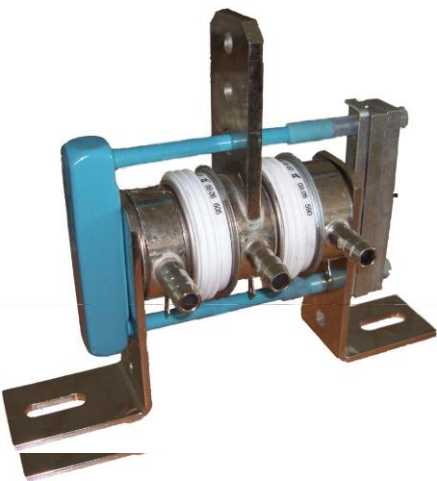


DOUBLE-DIODE MODULE – MOC...W



POWER BLOCK – photo1



POWER BLOCK – photo2



POWER BLOCK – photo3

DOUBLE-ELEMENT DIODE POWER BLOCK WITH WATER COOLED HEATSINK

Characteristics:

- double-element diode power module with water cooled heat sink
- water cooling

Application:

- rectifiers
- power supplies

Options:

- clamping in K-1 (photo 1);
- clamping in K-2 (photo 2);
- clamping in K-3 (photo 3);
- thermal protection
- RC system
- fuse

Selection of power blocks:

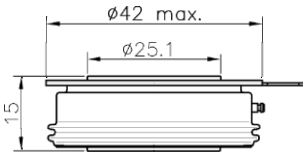
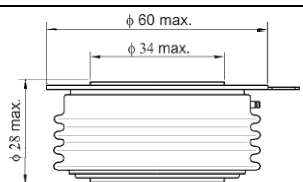
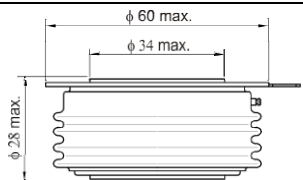
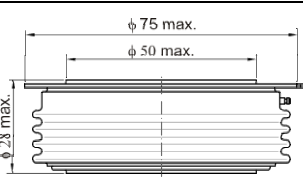
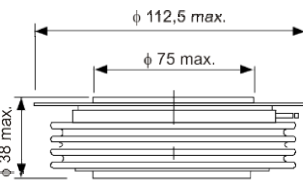
Depending on the load of power block there are used different semiconductors. Size of the applied semiconductor is specified in Table 1.

Working conditions:

Double-elements power blocks with water cooling are assigned to work in power electronic inverter systems:

- temperature of cooling water on entry: 5⁰C - 30⁰C for temperature of ambient air not lower than -10⁰C;
- atmospheric pressure: 860hPa – 1060hPa;
- cooling water: resistivity not lower than 5x10⁵ Ω·cm, pH: 5 – 8 and hardness not higher than 80mg CaO/dm³

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] |
|----------------|---|--|---|---|-----------------------|
| MOC75W | 800...1400 | 400...2200 | 8000...12000 |  | 1,4 |
| MOC7W | 800...1400 | 400...3000 | 7000...10000 |  | 1,6 |
| MOC8W | 1000...2000 | 400...6000 | 10000...24000 |  | 1,6 |
| MOC9W | 1000...3000 | 400...6000 | 20000...42000 |  | 3,2 |
| MOC11W | 2000...4000 | 400...7200 | 27000...65000 |  | 9,8 |

Scheme of power blocks — type MOD..W

CONFIGURATION

