

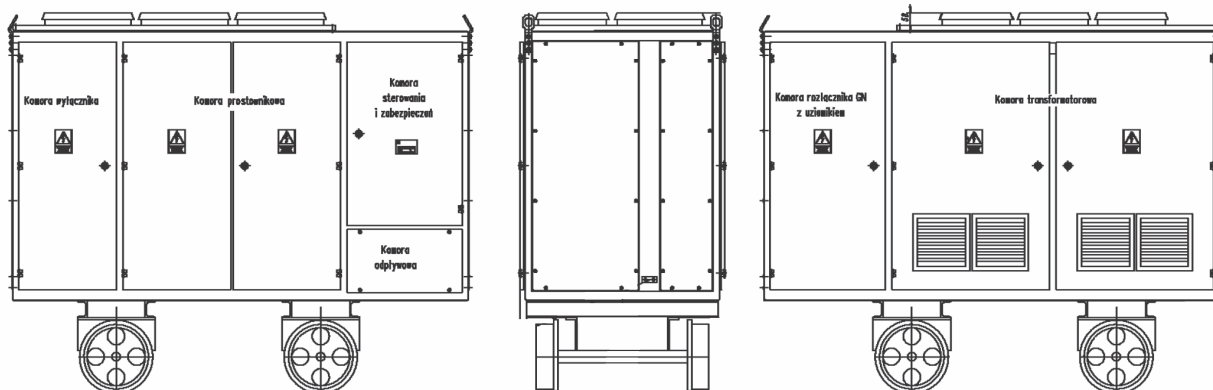


Automatic Transistor
 Rectifier Station type
MAR-APST-2-250/6/200/250



Moc		250 kW
Primary voltage from 3 kV to 6 kV (3 kV, 3,3 kV, 6 kV)		+
HV chamber equipment	Disconnecter with earthing switch	+
Circuit breaker chamber equipment	Power switch	+
Voltage of outflow	250 V DC	+
Number of outflows	2	+
LV chamber equipment	Rectifier system	+
	Power transistor	+
	Transistor test system	+
Control and protection chamber equipment	Circuit protection system	+
	Circuit test system	+
	Programmable logic controller	+

Example of Automatic transistor rectifier station



■ PURPOSE

Auto rectifier transistor station MAR-APST-2-250/6/200/250 is designed for traction power supply working in underground mines, the workings of non-hazardous or non-hazardous methane and classified as "A" class coal dust explosion hazard.

Auto rectifier station MAR-APST-2-250/6/200/250 transistor consists of disconnector, power transformer and switchgear and protection, located in a common housing, which is equipped with skids or wheels.

Automatic transistor rectifier station MAR-APST-2-250/6/200/250 is powered from HV side voltage of 3 kV and 6 kV. Secondary side station produces a voltage 200 V. The voltage is rectified in the 6 diode rectifier to the value of 250 V DC. The output voltage of the automatic transistor rectifier station is unregulated (a constant value).

■ CONSTRUCTION:

Housing of automatic transistor rectifier station MAR-APST-2-250/6/200/250 was made in the form of frame construction. It is welded with bending profiles.

Housing is divided into the following compartments:

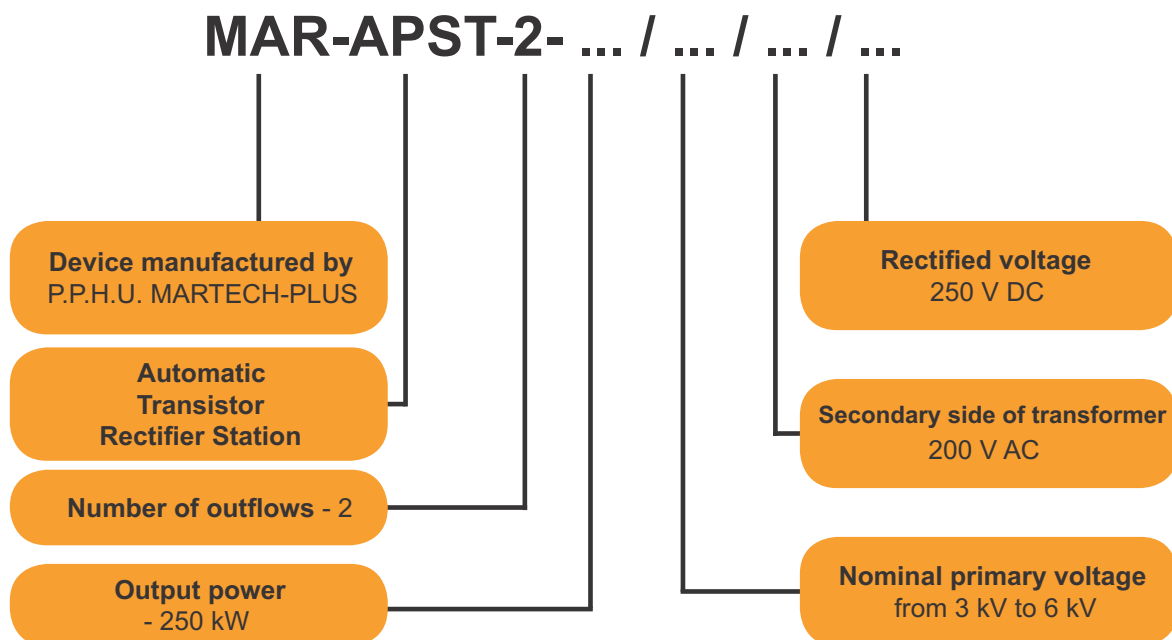
- LV disconnector chamber,
- Transformer chamber,
- circuit breaker chamber and separation auxiliary transformers (optional separation auxiliary transformers can be located in the chamber transformer)

- LV chamber equipment (rectifier, power transistors, line disconnectors)
- Security and control chamber, where are protection of the lines, programmable controllers, push buttons, relays, contactors and visualization panel,
- outflow chamber (cable glands for connecting wires / cables outflow - connected in LV chamber of apparatus).

Doors and covers chambers are made of steel (carbon steel, galvanized steel, stainless steel, double galvanized or stainless steel). The doors are equipped with hinges and locks type baskvil. The door was sealed with rubber gaskets glued from the inside. The filter uses a transformer chamber, through which air is drawn to cool the power transformer. The upper cover is equipped with a suction fan filters for removing heat generated by the transformer during operation. The IGBT transistors chamber also uses cooling system - filters and fans. Circuit breaker chamber and chamber LV apparatus is equipped with an electric lock, causing the power supply off the electrical system at the station opened the door of the chamber.

The door of HV disconnector chamber and the door of the transformer chamber is equipped with a mechanical stop that prevents them from being opened if the GN station switch is in the attached.

Housing automatic transistor rectifier station MAR-APST-2-250/6/200/250 can be placed on a truck equipped with skids or wheels for easy transport station to the place of installation.



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