

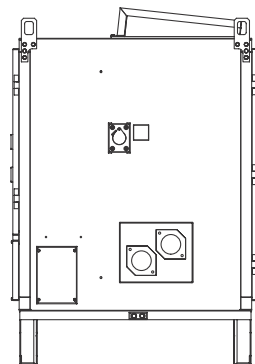
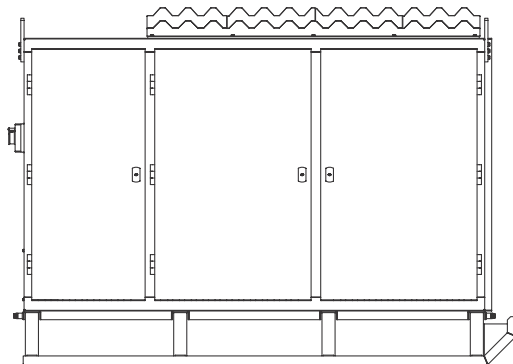


## Transformer station type **MARTB...** degree of protection IP54



Capacity		200 kVA	315 kVA	400 kVA	630 kVA
Primary voltage from 3 kV to 6 kV (3 kV, 3,3 kV, 6 kV)		+	+	+	+
HV chamber equipment	Disconnector	+	+	+	+
Breaker chamber equipment	Power switch or contactor	+	+	+	+
Lower voltage	525 V (from 400 V to 690 V)	+	+	+	-
	525 V and 1050 V (from 400 V to 690 V and from 690 V to 1050 V)	-	-	+	+
	1050 V (od 690 V do 1050 V)	-	-	+	+
Number of outflows	1-outflow	+	+	+	+
	2-outflow	+	+	+	+
	3-outflow	+	+	+	+
	4-outflow	+	+	+	+
LV chamber equipment	Contactor with supplementary protection and the PM relay	+	+	+	+

Exempla of configuration of transformer station, degree of protection IP54



■ **PURPOSE:**

Transformer Station MARTB-type ... - ... - ... / ... / ... / ... PM is designed to supply electrical machinery and equipment working in underground mines adapted for use in non-hazardous excavation or non-hazardous methane and classified to "A" class of coal dust explosion hazard.

Transformer Station MARTB-type ... - ... - ... / ... / ... / ... PM consists of a power transformer and apparatus for switching and protective placed in a common housing with degree of protection IP 54, which is equipped with skids or wheels.

Transformer Station MARTB-type ... - ... - ... / ... / ... / ... PM is powered by high voltage side voltage up to 6 kV. Secondary side station produces a voltage 525 V and 1050 V (400 V to 1140 V). You can adjust the voltage of station up to 5% by changing the transformation ratio. Ratio adjustment is on the HV side of the station de-energized. The station uses a microprocessor relays PM which provide protection against short-circuits , asymmetry overload and damage earth insulation outflow. In addition, microprocessor relays type PM are equipped with the security element to exceed the allowable temperature in winding power transformer for the class of insulation, the continuity of the ground control element, the control systems and the local and remote and systems to display information about the status of the stations and emergency situations.

■ **CONSTRUCTION:**

Housing type transformer station MARTB-... - ... - ... / ... / ... / ... PM has been made in the form of frame construction, welded sheet metal bent profiles thickness of 3 mm. The housing has IP54 protection.

■ **Housing is divided into the following compartments:**

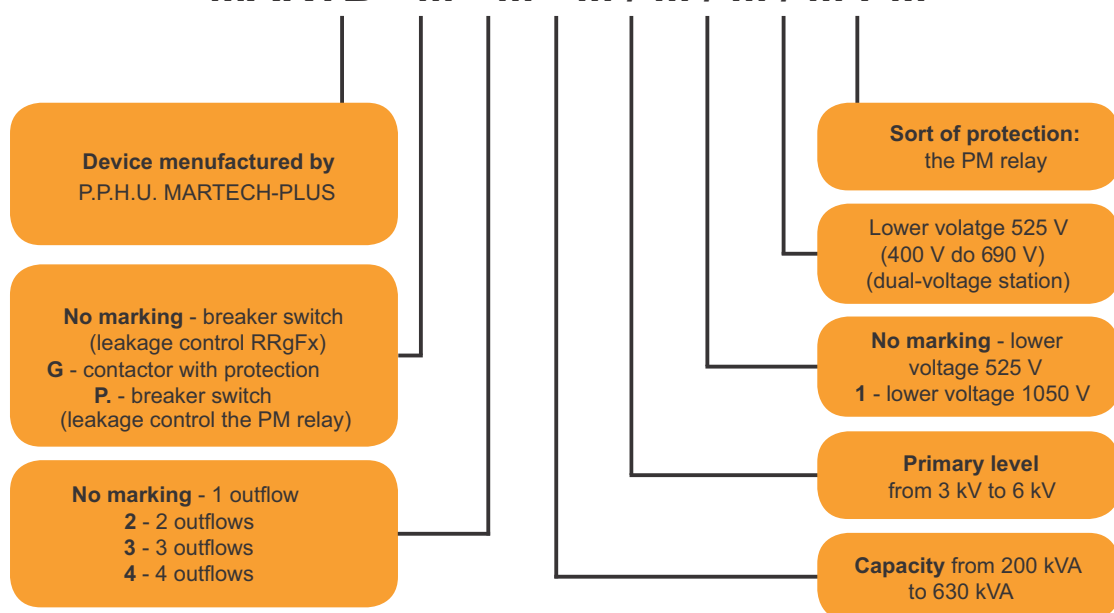
- HV chamber with earthing switch,
- chamber transformer (power and auxiliary)
- LV chamber apparatus,
- circuit breaker chamber or chamber contactor (contactors)
- chamber of security and control where is control panel with microprocessor relays 1K1 + 4K1, central leakage protection, the buttons for controlling the station and voltmeter,
- Optional, chamber of security and control may include a digital relay PM ..., which is used to protect against overloads, short circuits and leakage controls the output circuit voltage 24 V AC to 230 V AC.

Doors and covers of chambers are made of sheet metal with internal stiffeners welded. The door is equipped with hinges and locks type baskvil , and sealed with rubber gaskets, glued on the inside. The door of the chamber of transformers used filters (optional), which is drawn by the fan (optional) air to cool the power transformer.

The upper cover is equipped with 3 filters with suction fan (optional) to exhaust heat generated by the transformer during operation. LV chamber apparatus is equipped with an electric lock, causing the power supply off the electrical system at the station opened the door of the chamber. HV chamber door switch and transformer chamber door is equipped with a mechanical stop that prevents them from being opened if the HV station switch is in the attached.

Chamber of disconnecter has a sight glass through which you can observe the position of disconnecter contacts.

**MARTB - ... - ... - ... / ... / ... / ... PM**



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