

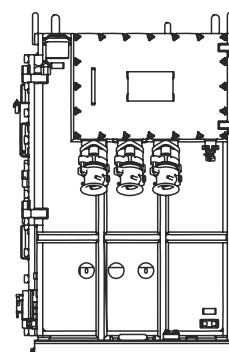
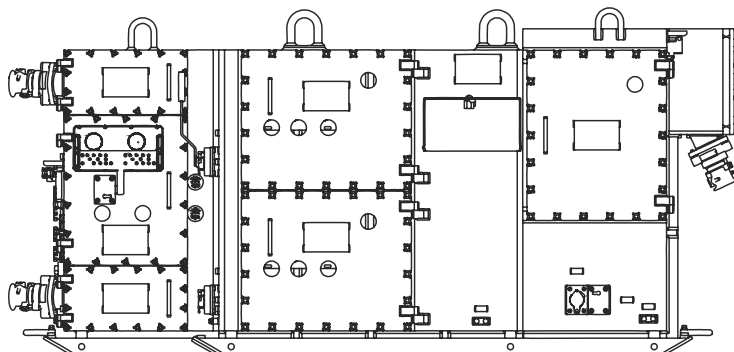
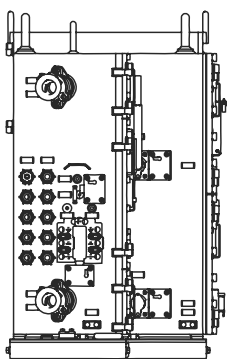


## Flame-proof mining switchgear type **MAR-ORK-2-630/... R...**



Type of flame-proof mining switchgear	MAR-ORK-2-630/... R ...
Nominal voltage	to 7,2 kV
The total rated current	630 A
The maximum current rating of a single outlet	450 A
Nominal frequency	50 Hz, 60 Hz
Short time withstand current	31,5kA (1 s)
Maximum asymmetric short-circuit current	80 kA
Resistance to internal electric arc	25 kA (0,2 s)
Classification IAC	AFLR
Quantity of outflows	2
Type of protection	REF...
Degree of protection	IP54
Weight	ca. 4800 kg

### Example of configuration of flame-proof mining switchgear



## ■ PURPOSE

The flame-proof mining switchgear of the type MAR-ORK-2-630/...R... is designed provide current to electric machines and devices operated in mines. They are adapted to work in non-methane and methane headings classified to "a", "b" or "c" degree of methane explosion hazard and to the places classified to "A" or "B" class of coal dust explosion hazard.

The flame-proof mining switchgear of the type MAR-ORK-2-630/...R... is powered voltage from 3 kV to 7,2 kV. It has two independent fully protected outflows.

## ■ CONSTRUCTION

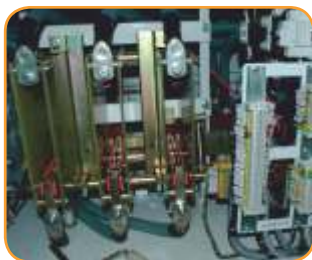
The electrical system of the flame-proof mining switchgear is installed in the flame-proof housing. Housing has seven separate chambers. Housing design provides a degree of protection IP54 and protects against electric arc of 25 kA for 0.2 s.

Is installed on a chassis fitted with skids or wheels for transport to the place of installation of the switchgear on mine.

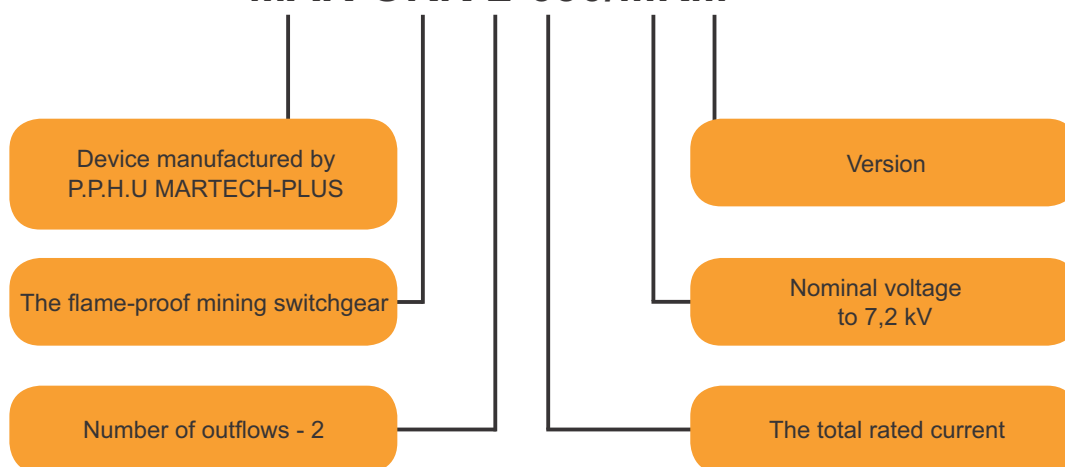
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The flame-proof mining switchgear consist of:

1. Chamber of connection terminals, designed to connect of the outflow cables
2. Chamber of disconnecter, which is mounted disconnecter with earthing switch with electrical drive, the station service transformer power control system, locks and visualization and three voltage transformers (optional) with fuses and switches for protecting transformer and voltage transformers.
3. Chambers of switch and earthing switch – circuit I i circuit II, which are mounted vacuum contractor, current transformers, disconnectors with earthing switch with the electrical drive.
4. Chambers of outflow terminals – circuit I i circuit II, designed to connect of the outflow cables. In chambers are installed current transformers (Ferranti) operating with the controllers.
5. Chambers with control and protection elements.



## MAR-ORK-2-630/...R...



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