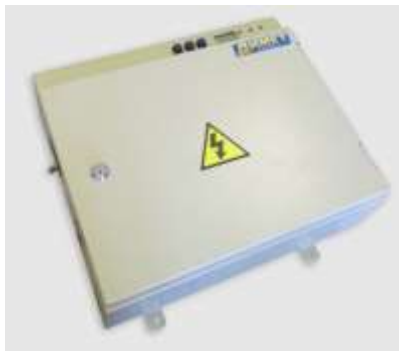


Control system (rectifiers) 500-3-100A for lifting magnets

Control systems is designed to supply and control lifting magnets of direct current.



Technical data

Parameters	500-3-100A
1. Power supply	Three-phase 380V AC, 50Hz
2. Adjustment range of output voltage, V	10-230
3. Demagnetization time, sec.	3
4. ED, %	75, 100
5. Maximum permissible current at 75% ED, A	100
6. Maximum permissible current at 100% ED, A	50
7. Overall dimensions, mm	360x150x375
8. Coupling size, mm	255x350
9. Weight, kg	12,2
10. Operating temperature, °C	-20°... +45°

Main types of protection

1. Limitation of maximal output voltage at the level of 220V...230 V.
2. Protection against short circuit on load and to ground.
3. Signaling system for supply cable break.
4. Signaling system of leakage current exceeding in the electromagnet (when it's overheated).
5. Signaling system for turn-to-turn short circuits.
6. Signaling system of permissible current exceeding.

Features

1. Long service life of the magnet due to high-speed electronic protection and alarming systems.
2. No overvoltage during recuperation and demagnetization.
3. 30-40% energy saving due to the removal of load resistor from the crane circuit and due to the energy release back to the circuit at the demagnetization mode.
4. Smooth voltage control, possibility of separation of the handled load.
5. High efficiency due to the speed increase and decrease of the current in the magnet.
6. Maximum permissible surge current is 4500 A that guarantees reliable operation at a short circuit.
7. Universality – the system can be used with electromagnetic separators with 100% ED.
8. Alphanumeric display of the running parameters, operating modes and emergency messages.
9. Small weight and size allow placing the rectifier directly in a crane cabin at any convenient place.

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