

MASTER CONTROLLER



CMK ELECTRO POWER PVT LTD.
(An ISO 9001:2015 Certified Company)



Chemical Industries



Crane Industries



Paper Industries



Automobile Industries



Power Plant

Manufacturer of EOT Crane & Control Equipments

MASTER CONTROLLER

In an EOT (Electric Overhead Traveling) crane, the Master Controller is a key component that plays a crucial role in managing and controlling the crane's movement and operation. It serves as the interface between the crane's operator and the crane's control system.

Master controllers are used for operation of contractor's equipment controlling E.O.T. Cranes & Rolling mills drives. The controllers are made in dust proof enclosure in IP-54 degree of protection, up to 6 notches either side with maximum 24 contacts as per desired sequence with spring return arrangement & deadman's handle arrangement are available Master Controllers are compact up to 4-0-4 step suitable for Grab-Hoist, CT-LT maximum contacts 16 per motion with spring return arrangement.

Master controller operated cranes shall be provided with automatic control of acceleration. Accelerating torque/current peak shall be limited during controller handle movement from one notch to the other with due consideration to the pullout torque of the motor and number of rotor accelerating contactors shall be selected accordingly. For master control operated cranes the control voltage preferably 110 ac and shall not exceed 240 V for ac or dc supply.

Master controller are of cam type where in contacts are actuated by individual cams mounted on operated shaft. The shaft are cut accordingly to the type of sequenced. These are also provided with a spring return mechanism which returns the handle to the neutral position when it is released

We learn in detail working and operations of 4/6 master controller.

Master Controller 4/6 indicates 4 steps and 6 cam switch. As per position of cam switch we can operate crane manually with master controller.

Contact Block	B4	B3	B2	B1	0	F1	F2	F3	F4
1					X				
2						X	X	X	X
3	X	X	X	X					
4	X	X	X				X	X	X
5	X	X						X	X
6	X								X

X Indicates close Contact Block(Cam Switch).

1st Cam Switch Indicates On/Off Position

2nd & 3rd Cam Switch Indicates Forward Or Backword Operation.

4th Cam Switch Indicates speed and torque. On 1st step with less speed and high torque.

5th Cam Switch Indicates speed and torque. On 2st step with equal speed and torque.

6th Cam Switch Indicates speed and torque. On 3st step with high speed and less torque.

We can operate only two direction with use of one master controller. Either cross travel or long travel.

In 3/5 master controller there are 3 steps and 5 cam switches as shown below.

Contact Block	B3	B2	B1	0	F1	F2	F3
1				X			
2					X	X	X
3	X	X	X				
4	X	X				X	X
5	X						X

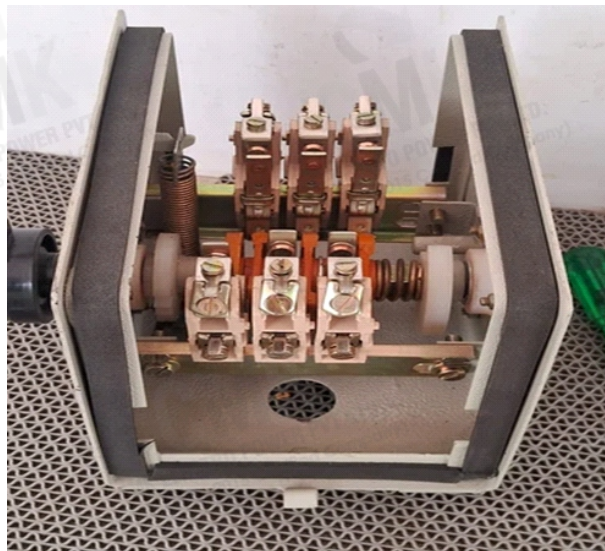
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5th Cam Switch Indicates speed and torque. On 2st step with high speed and less torque.



Technical Specification

Body Material	MS sheet
Enclosure	IP-44 / IP-54
Mounting Position	Horizontal/Vertical
Rated Voltage	500 V
Cable entry	2x 20/2x26 Conduit
Thermal Test Current	40 amp
Frequency of operation	1000 switching per hour
No. of contacts	24 <u>maximum</u>
No of step	6-0-6 maximum
Optional arrangement	Spring return/ <u>deadman's</u>
Handle Contact Material	Sliver Cadmium



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