# KAKKU MILL DUTY MASTER CONTROLLER SERIES MSC - 2000

# SPECIAL FEATURES

- Double break contacts with high quality silver cadmium oxide contact tips having arc-retarding & anti-welding properties.
- Provided with specially treated oil resistant rubber gaskets at all the joints to make it completely dust proof.
- Cams and contact block of high grade phenolic fibrous moulding material having excellent electrical & mechanical properties.
- Unified design, such that the main parts as well as individual components are identical over the entire range.
- Star wheel for positive notching at each step and pronounced notching at neutral.
- Universal design for both AC & DC applications.
- KAKKU master controllers are also noted for ease of assembly dis-assembly & adjustments as well as free access to all the parts.
- Contact sequence chart pasted on inside face of cover and name plate of operational details indicated clearly.

- Pointer for indicating handle position.
- Long life with reliable performance and trouble free operation.

## **APPLICATION**

KAKKU Mill Duty Master Controllers Series MSC-2000 are used for remote control of electric drives of EOT cranes, hoists, transfer cars, grab-buckets, unloaders, steel mills, conveyors and other heavy material handling equipments. KAKKU also manufactures various combination of dualized arrangement of these master controllers.

## **TECHNICAL DATA**

Ambient Temperature : 55°C.

Mounting Arrangement : Surface Mounting.

Housing : Cast Al.

Enclosure category : As per IP-55 of IS : 2147-1962. Terminals : Suitable for conductor size

2.5mm<sup>2.</sup>

Max. No. of operating

5 - 0 - 5.

positions.

Max. No. of Contacts/ Circuits : upto 24.

# **RATINGS**

Rated Voltage	Permissible	Making Current	Breaking Current at Inductive Load (Amps.)			
	Continuous	upto 500V AC	DC Upto 5		Upto 500V AC	
	Current		110V	220V	440V	
Upto 500VAC or DC	10A	50A	2.5	1.5	0.5	10

Permissible Switchings: 800 operations per hour.

#### DUAL MASTER CONTROLLERS

A combination of two master controllers are mounted on a common mounting plate. The two controllers are operated either individually or both together by a common handle.

Max No of

## **SELECTION CHART**

TYPE	contacts/ circuits	Fig.				
MSC-2000/8	8	1				
MSC-2000/12*	12	1				
MSC-2000/16	16	2				
MSC-2000/20	20	3				
DUAL MASTER CONTROLLER						
MSC-2000(8X8)	8+8	4				
MSC-2000(12X8)	12+8	4				
MSC-2000(16X8)	16+8	4				
MSC-2000(12X12)	12+12	4				
MSC-2000(16X12)	16+12	4				
MSC-2000(16X16)	16+16	4				

<sup>\*</sup> Eqvt. to erst-while USSR Series  $K\Pi$  - 1000T.

### **DIMENSIONS**

As per relevant figures shown in the dimensional data sheets.

# **OPTIONAL EXTRAS**

- Enclosure as per IP 65.
- Provision of make before break contacts.
- Spring return of handle to neutral.
- Special type of handle. (furnish drawing)
- Suitable base plate at bottom to match any mounting dimensions. (furnish drawing)
- Epoxy paint for special applications.
- Contacts with thermal rating of 40 Amps.

# ORDERING INFORMATION

- Give KAKKU type.
- No. of operating positions or steps.
- Contact sequence chart indicating opening & closing of each contact in every position of the controller.
- Name plate details of operation i.e. 'HOIST LOWER', 'FORWARD – REVERSE' etc.
- For dual controller specify operation i.e. individual or simultaneous.
- Specify optional extras if any.

Product improvement is a continuous process at KAKKU. Hence data given in this catalogue is subject to revision without notice.



