KAKKU HEAVY DUTY MASTER CONTROLLERS

SERIES MSC-1500 & MSC-1600

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 in the case of MSC – 1500.

- Universal design for both AC & DC applications.
- KAKKU master controllers are also noted for ease of assembly, disassembly & 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.
- Long life with reliable performance and trouble free operation.

APPLICATION

KAKKU Heavy Duty Master Controllers Type MSC-1500 with dead man's handle and MSC-1600 with foot- pedal drives are extensively used in the controls of excavator & shovel mechanisms, particularly in Russian electric shovels type *EKG-4.6 or similar*.

TECHNICAL DATA

Ambient Temperature : 55°C

Mounting Arrangement : Surface Mounting Housing : Cast Iron/ Al.

Enclosure Category : As per IP-54 of IS: 2147-1962

Terminals : Suitable for

conductor size 2.5mm²

Max. No. of operating : 4-0-4

positions

Max. No. of circuits : 6

RATINGS

	Rated Voltage	Permissible Continuous Current	Making Current upto 500 VAC	Breaking Current at Inductive Load (Amps.)			
				DC			Upto 500V AC
		Continuous Current	300 VAG	110V	220V	440V	
ľ	Upto 500V AC or DC	10A	50A	2.5	1.5	0.5	10

Permissible Switchings: 800 operations per hour

SELECTION CHART

Types	Operated through	Typical in shovels	Fig.	~erst-while USSR series
MSC-1500	Dead man's handle with push buttons	Hoist & crowd	1	3K-8200
MSC-1600	Foot Pedal	Swing & Propel	2	3K-8250

DIMENSIONS

As per relevant figures shown in the dimensional data sheet.

OPTIONAL EXTRAS

- Enclosure as per IP-55 or superior.
- Contacts with thermal rating of 40Amps.

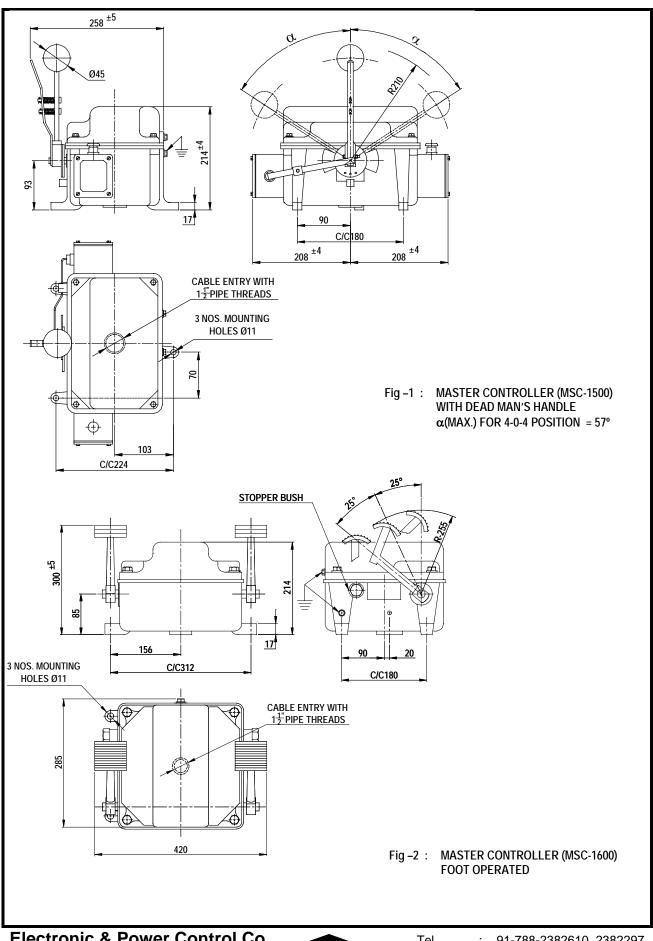
- Suitable base plate at bottom to match any mounting dimension. (furnish drawing).
- Epoxy paint for special applications.

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, 'SWING-PROPEL', etc.
- 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.





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