KAKKU INDUSTRIAL CONTROLLERS

SERIES MSC - 2510

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 ad 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.
- Universal design for both AC & DC applications.
- KAKKU industrial 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.
- Long life with reliable performance and trouble free operation.

APPLICATION

KAKKU Industrial Master Controllers Series MSC – 2510 are used for remote control of electric drives of EOT cranes, winches, conveyors and other similar applications where mechanism is to be run at one speed in either direction. These are also used for switching on lifting magnets in heavy duty cranes & as emergency master switches.

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.

No. of operating positions : 1-0-1. No. of circuits : Upto 4.

RATINGS

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

Permissible Switchings: 800 operations per hour

SELECTION CHART

| Туре | Action | Max. No. of Contacts/ Circuites |
|------------|---------------|---------------------------------------|
| MSC - 2511 | STAYPUT | 4 |
| MSC - 2512 | SPRING RETURN | 4 |
| MSC - 2513 | STAYPUT | 2 |
| MSC - 2514 | SPRING RETURN | 2 |

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.

- Provision of make before break contacts.
- Special type of handle. (furnish drawing)
- Suitable base plate at bottom to match any mounting dimension. (furnish drawing)
- Epoxy paint for special applications.
- Switches having stayput position on one side and spring return on the other.

ORDERING INFORMATION

- Give KAKKU type.
- Contact sequence chart indicating opening & closing of each contact in every position of the controller.
- Name plate details of operation i.e. 'FORWARD-REVERSE', 'ON-OFF' 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.



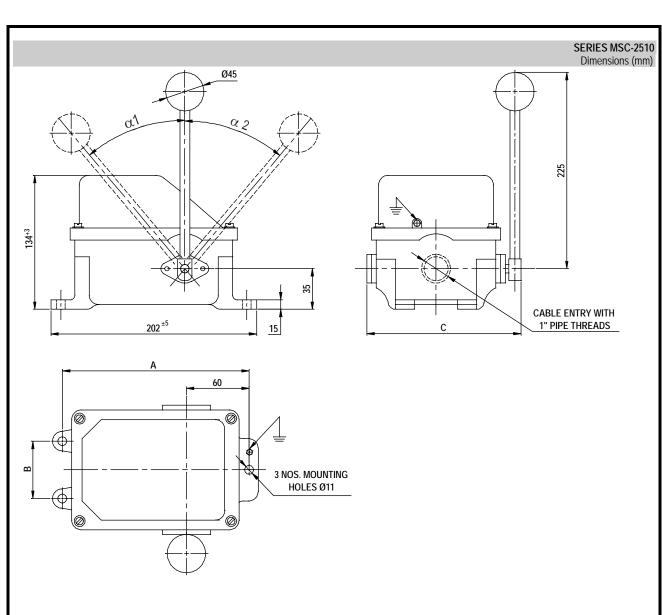


FIGURE - 1: MASTER CONTROLLER

| Туре | Versions | No. of Contacts | А | В | С |
|----------|--|--------------------|-----|-----|-----|
| MSC-2511 | STAYPUT $\alpha 1 = \alpha 2 = 50^{\circ}$ | 4 | 178 | 113 | 214 |
| MSC-2512 | SELF RESET $\alpha 1 = \alpha 2 = 30^{\circ}$ | 4 | 178 | 113 | 214 |
| MSC-2513 | STAY PUT $\alpha 1 = \alpha 2 = 50^{\circ}$ | 2 | 174 | 54 | 160 |
| MSC-2514 | SELF RESET $\alpha 1 = \alpha 2 = 30^{\circ}$ | 2 | 174 | 54 | 160 |
| MSC-2515 | STAY PUT $\alpha 1 = 45^{\circ}$ SELF RESET $\alpha 2 = 30^{\circ}$ | 2 | 174 | 54 | 160 |
| MSC-2516 | STAY PUT $\alpha 1 = 45^{\circ}$ SELF RESET $\alpha 2 = 30^{\circ}$ | 4 | 178 | 113 | 214 |

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