

## MZ TYPE

Mechanically latched changeover contactor for emergency power and normal power changeover complying with IEC, BS, NEMA and JEM standards.

### Features

1. Sufficient contact open time to avoid possible arcing during changeover.
2. Contact pressure is kept constant by leaf spring and therefore no change in contact conductivity due to voltage fluctuations.
3. No operating current required after the changeover because of the mechanical latch mechanism.
4. Contacts are made from silver alloy for high resistance to burn-off.
5. Self sliding contacts clean dust and oxidation on contact's each time when the contactor is operated.

### Handling and Operation

#### 1. Initial inspection

Check the ratings of the product such as rated voltage, rated current and operating voltage. Check also for damage, deformation, close parts or other defects which may have been caused during transportation.

#### 2. Installation

Do not install the automatic changeover contactor in an environment of high temperature or high humidity, for example, close to boiler or furnace, or in an atmosphere containing poisonous gases. When it is to be used in a dusty or oily environment, protect the automatic changeover contactor with an enclosure or panel structure. The environmental requirements must be in compliance with JEM ( Japanese Electrical Manufacturers Association Standard ) and IEC standards.

The MZ type automatic changeover contactors are designed for installation on a vertical surface with their mechanical section to the right and the electrical section to the left. However, they can be designed and manufactured for installation in any orientation. Specify it when a non-standard orientation is required.

Contact Kyoritsu Keiki about use in conditions other than specified.

#### 3. Arcing space

Be sure to install the MZ type automatic changeover contactor with a sufficient arcing space as instructed. Without a sufficient arcing space, it may travel to another apparatus or metallic part during breaking operation, which will result in a serious accident.

#### 4. Main circuit wiring

In wiring, use wires sufficient for the specified current capacity and fasten them securely with solderless terminals. Take care not to apply any stress to the main circuit terminals.

#### 5. Control circuit wiring

Taking voltage drop into consideration when selecting the control wires. In case of DC operation, proper wire should be used. The operation current shown in this catalog is measured by an ammeter.

#### 6. Auxiliary relay

The MZ type automatic changeover contactor breaks the coil current by an internal changeover switch. Therefore, a relay for making operation, if necessary, can be used. ( pay attention to voltage drop )

The making relay ( for DC use ) "GN Series" is available as an option from Kyoritsu Keiki.

#### 7. Inspection and Tests

The MZ type automatic changeover contactors comply with JEM 1038, JEM 1138, IEC-158-1, BS5424, and have undergone the following inspection and tests before delivery.

Structure inspection, minimum pick up voltage test, switching performance test ( 80%, 100%, 120% for AC, 130% for DC ), manual performance test, insulation resistance test, withstand voltage test.

( Withstand voltage test : 2750V 1 min. for main circuit, 2100V 1 min. for control circuit, )

### Operation with manual operation handle

- 1) Turn off the control power.
- 2) Turn off the main circuit power.
- 3) As illustrated, insert the handle into the handle holder provided in the movable section.
- 4) Move the handle up or down, and a manual operation will be achieved.

Note : On completion of a manual operation, remove the handle without fail.

