

**MECHANICAL INTERLOCK UNIT
POWER CONNECTION KIT FOR REVERSING
FOR MAGNETIC CONTACTOR**

TYPE SZ-RM
TYPE SZ-ERW1J, ERW2W, ERW3W
SC-E02, E03, E04, E05, E1, E2, E2S, E3, E4
SC-E02/G, E03/G, E04/G, E05/G, E1/G, E2/G, E2S/G, E3/G, E4/G

Safety Precautions

To ensure proper use of the product, be sure to read this manual and the other attached documents carefully before starting installation, operation, maintenance, and inspection. Within this instruction manual, safety precautions are ranked, in order of importance, as either “Warning” or “Caution”.

⚠Warning : An operator may be killed or seriously injured by a hazardous condition resulting from improper operation.

⚠Caution : An operator may be damaged by a hazardous condition resulting from improper operation.

Under certain conditions, improper operation may result in serious injury and/or damage even if it is labeled only as “Caution”.

Every item indicated by either “Warning” or “Caution” should be considered significant. Be sure to give particular care to those items.

⚠ WARNING

●Do not touch the product or approach it. Electrical shock or burning may result.

●Turn off the power before starting maintenance or inspection. Failure to turn off power may result in electrical shock or burning.

⚠ CAUTION

●Do not touch the product immediately after the power is turned off. As it may still be hot, burning may result.

●Treat the product as industrial waste when discarding.

1. Unpacking

First of all, check that the product matches your purchase order and that there are no damaged or missing parts.

2. Installation

2.1 Mechanical interlock Unit (Fig.1)

- (1) Match the projecting part (*1) of the movable part of the mechanical interlock unit with the small square opening part (*2) of the movable part of the contactor, and the round boss (*3) of the mechanical interlock unit with the recessed part (*4) of the side of the contactor. Hold the mechanical interlock unit on the both sides by the contactors.
- (2) Insert the ribs (*5) of the joint block into the guides (*6) of the contactor and fit the window (*8) of the joint block into the projecting part (*7) of the mechanical interlock unit.

2.2 Power Connection Kit for Reversing (Fig.2)

- (1) Perform wiring to coil terminals before attaching power connection kit
- (2) Connect the kit to main circuit terminals. The kits are available for only the line or load sides. Be sure to wire carefully.
- (3) In case of line side part of “SZ-ERW2W or SZ-ERW3W”, insert and connect this part to **front** side terminals. (Fig.3)
- (4) In case of using load side part of “SZ-ERW1J” with thermal overload relay, insert and connect this part to the **left** side of the terminal screw after turning tied band side to the direction of **front** side of the contactor. In case of without thermal overload relay, it is also available turning tied band side to the direction of **back** side of the contactor and connecting to the **right** side of the terminal screw. (Fig.2)
- (5) In case of using load side part of “SZ-ERW2W or SZ-ERW3W” with thermal overload, insert and connect to **back** side terminals after turning the bent side to the direction of **front** side of the contactor. In case of without thermal overload relay, it is also available turning the bent side to the direction of **back** side of the contactor and connecting to the **front** side of the contactor. (Fig.3)

3. Notes

- (1) After connection, push and release the movable parts(contact supports) of the forwarding and reversing contactors one turn at a time to see that they move smoothly.
- (2) To prevent simultaneous engagement of forward and reverse contactors, be sure to electrically interlock with each other. (Figure4)
- (3) In case of rapid switching use, please keep over 15ms interval by using delay relay and so on for prevention of short circuit accident.

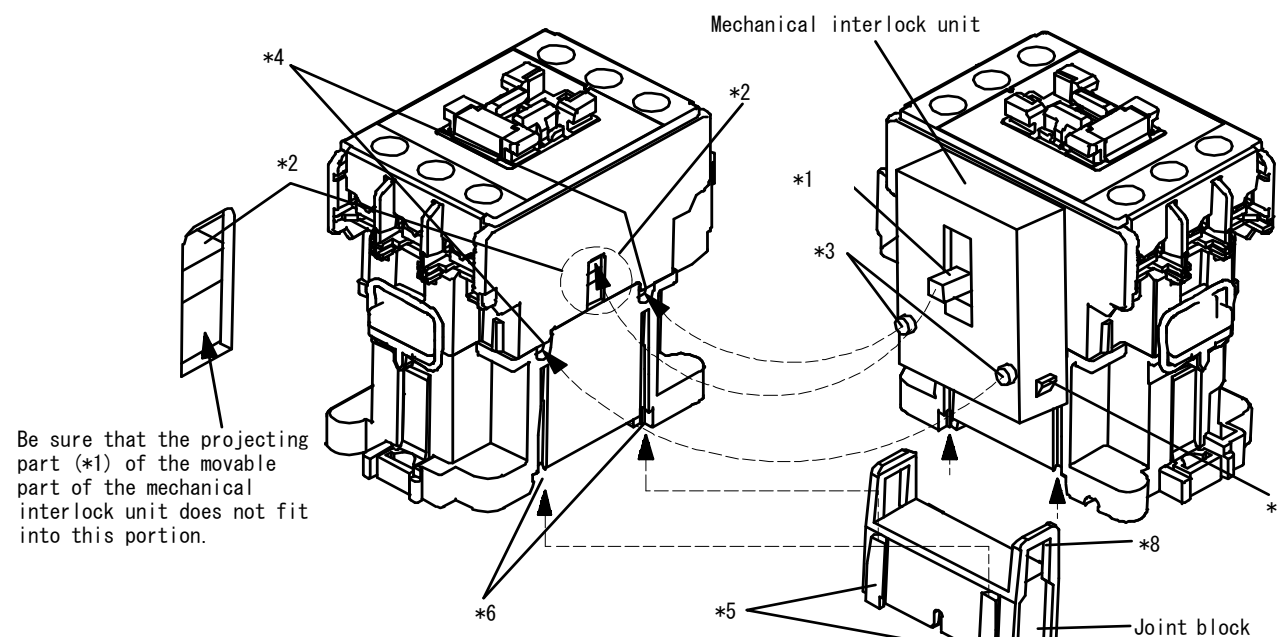


Fig. 1

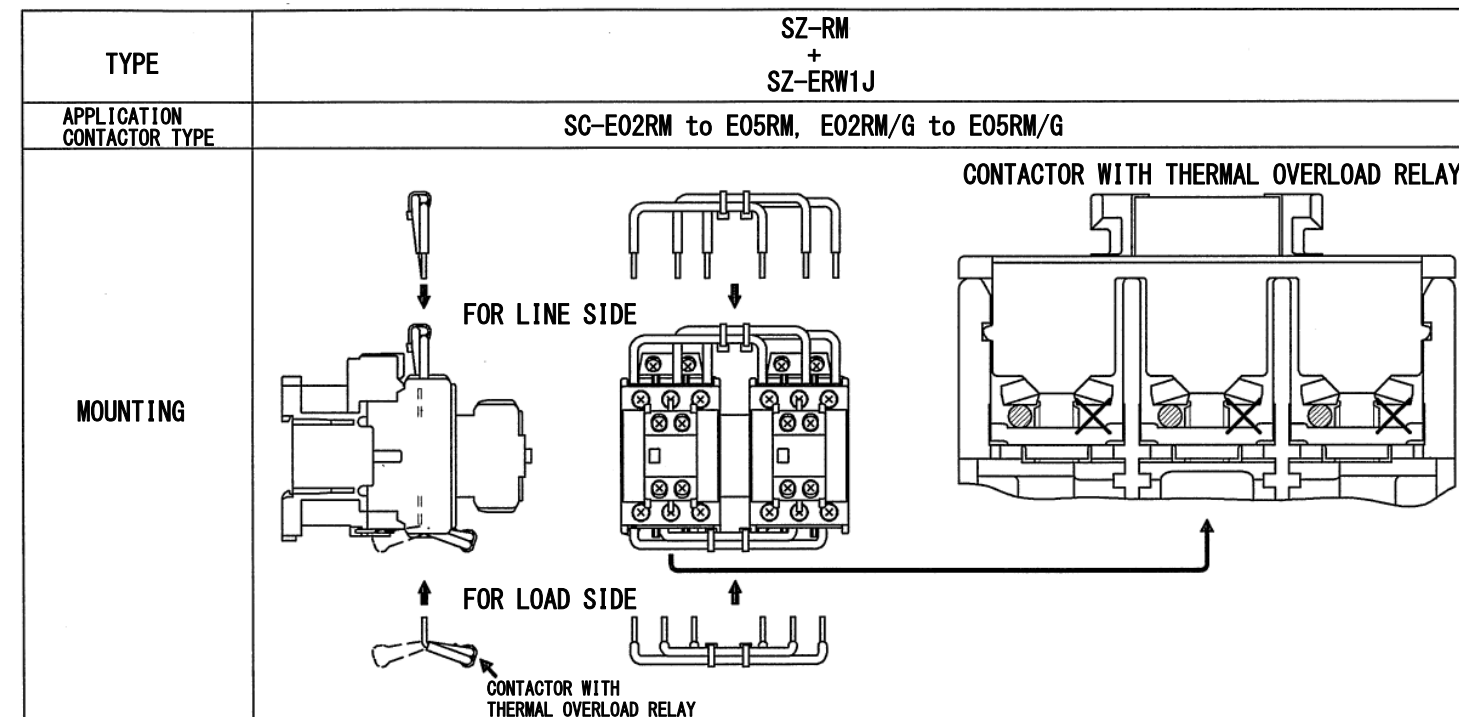


Fig. 2

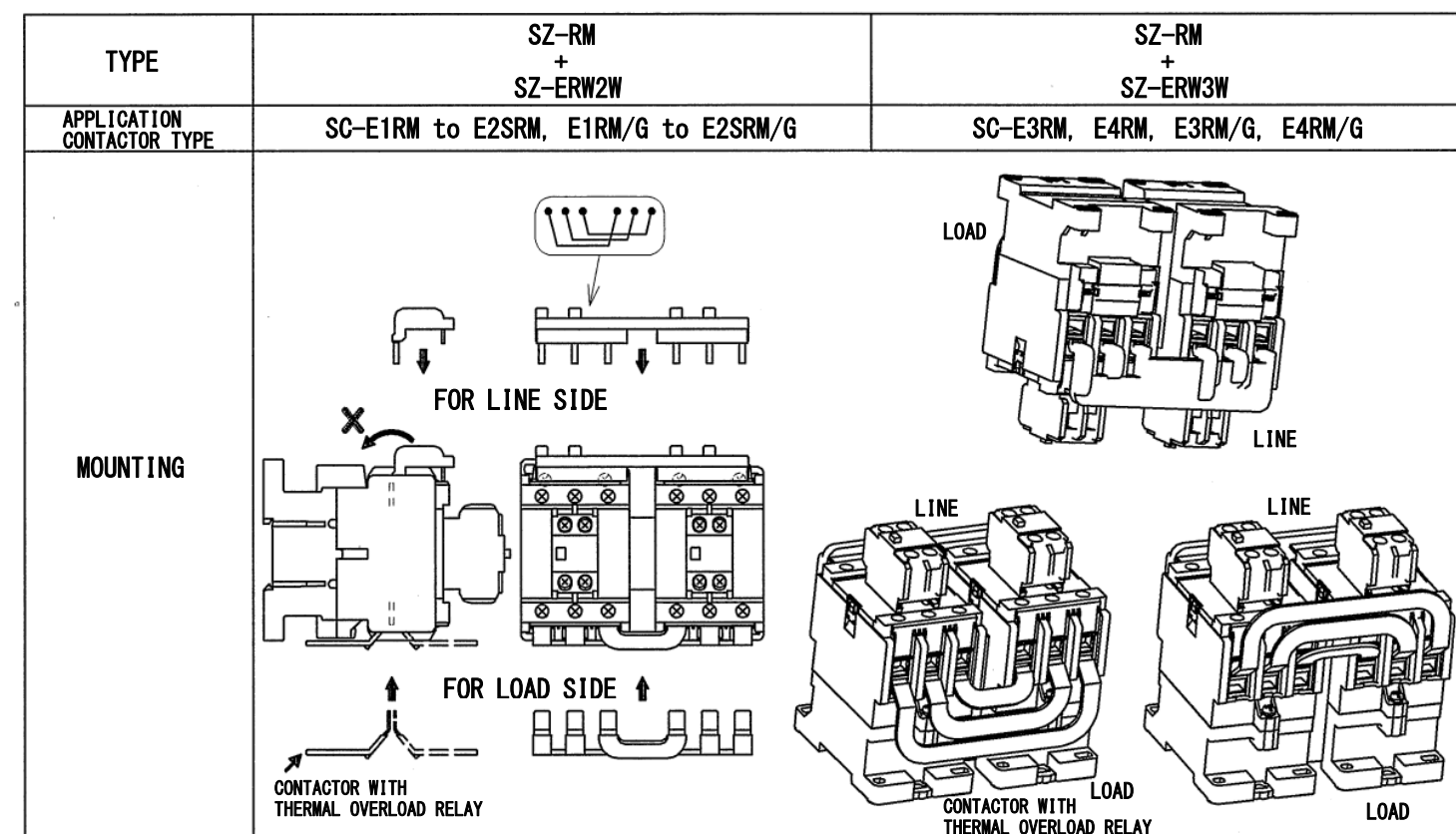


Fig. 3

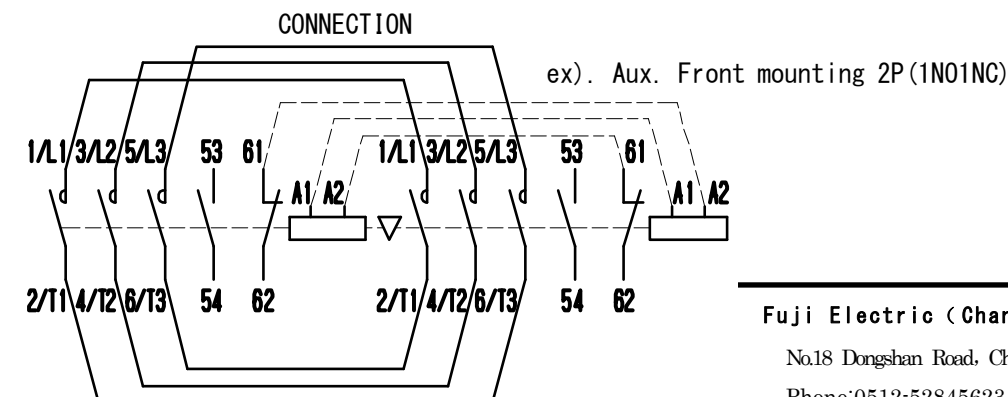


Fig. 4

Fuji Electric (Changshu) CO., LTD.

No.18 Dongshan Road, Changshu, Jiangsu, China

Phone: 0512-52845623 52845643