

机械联锁单元  
 可逆接线连接件  
 交流接触器

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

**安全注意事项**

在安装、运行、保养和维修前必须熟读使用说明书，按说明书正确进行使用。  
 在使用说明书中把安全注意事项区分为“危险”“注意”两个等级。

**危险**：指在由于错误的使用而引发的危险情况下有可能导致死亡或重伤的场合。

**注意**：指在由于错误的使用而引发的危险情况下有可能导致中等程度的伤害或轻伤的场合，以及只会发生物体损坏的场合。

并且，即使在**注意**中记载的事项根据情况也有可能发生导致发生重大事故，所以记载内容都很重要，请务必遵守。

<b>危险</b>
<ul style="list-style-type: none"> <li>●不要触摸和靠近通电中的产品，因有触电、灼伤的危险。</li> <li>●保养和维修请在切断电源后进行，因有触电的危险。</li> </ul>
<b>注意</b>
<ul style="list-style-type: none"> <li>●不要在切断电源后立即触摸产品，因为余热可能导致烫伤。</li> <li>●产品废弃时需按产业废弃物处理。</li> </ul>

1. 解开包装

在安装前请确认产品与要求的规格是否一致。请检查是否有由于运输等原因而引起的零部件脱落或破损现象。

2. 安装

2.1 机械联锁单元（图1）

(1) 将机械联锁单元可动部的滑块（\*1）卡入本体可动部的凹槽（\*2），联锁单元的定位块（\*3）和本体侧面的定位槽（\*4）对准，把联锁单元从两侧压入，将联锁单元与接触器联接在一起。

(2) 把连接块的导向块（\*5）插入本体的导向槽（\*6）中，把连接块的挂耳（\*8）与联锁单元的卡块（\*7）卡住。

2.2 可逆接线连接件

(1) 在安装前请先完成线圈端子的接线。

(2) 将可逆接线连接件安装在主回路端子上。可逆接线连接件有电源侧用和负载侧用两种，在接线时请不要混淆。

(3) 在使用 SZ-ERW2W、ERW3W 的电源侧部件时，朝向接触器前面插入接线端子。（图3）

(4) 在使用 SZ-ERW1J 的负载侧部件时，若与热过载继电器组合，则使可逆接线连接件扎带朝向接触器正面，插入端子螺钉左侧；若无热过载继电器，则使可逆接线连接件扎带朝向接触器反面，插入端子螺钉右侧（图2）。

(5) 在使用 SZ-ERW2W、ERW3W 的负载侧部件时，若与热过载继电器组合，将该部件弯曲面朝向接触器正面，插入端子下侧进行接线；若无热过载继电器，则将其弯曲面背向接触器正面，插入端子的上侧进行接线。（图3）

3. 注意事项

(1) 接线完成后，分别按下正向、反向接触器的可动部分（触头支持）并松开，确认其能顺利动作。

(2) 为防止正向、反向接触器同时吸合，在控制回路中应有电气联锁。（图4）

(3) 在快速切换的场合，为防止短路事故的发生，应使用延时继电器确保切换时间大于 15ms。

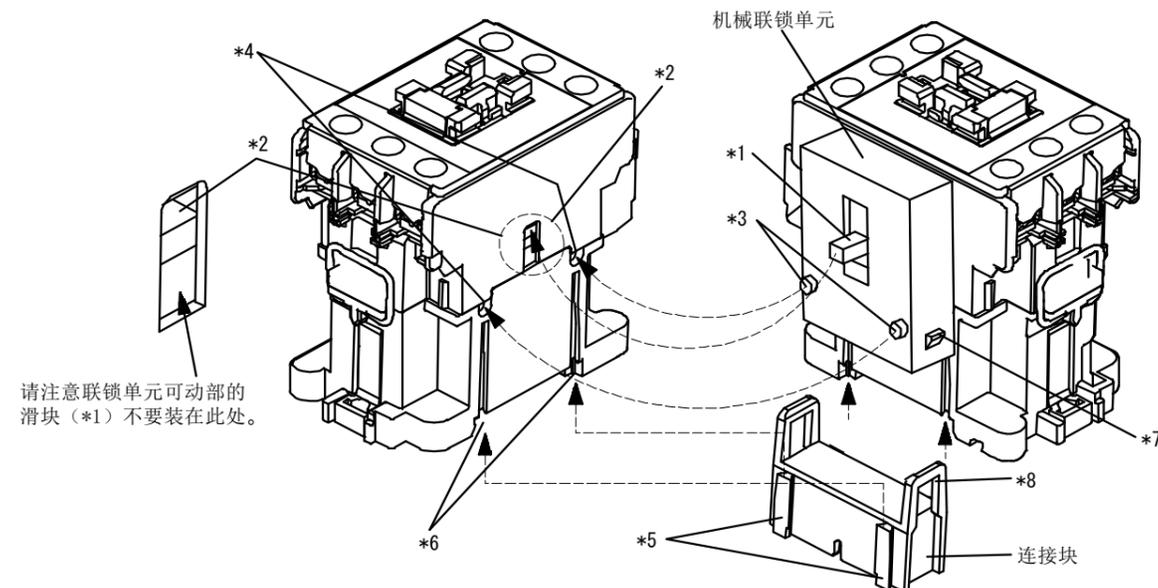


图1

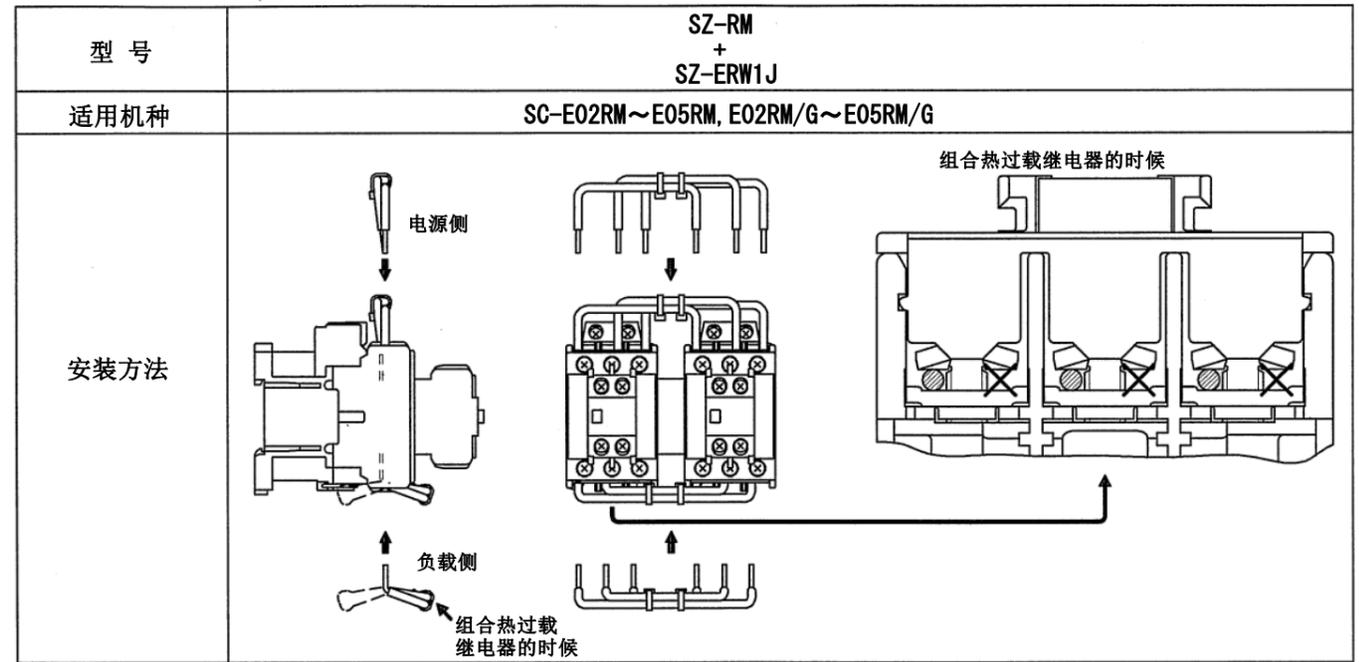


图2

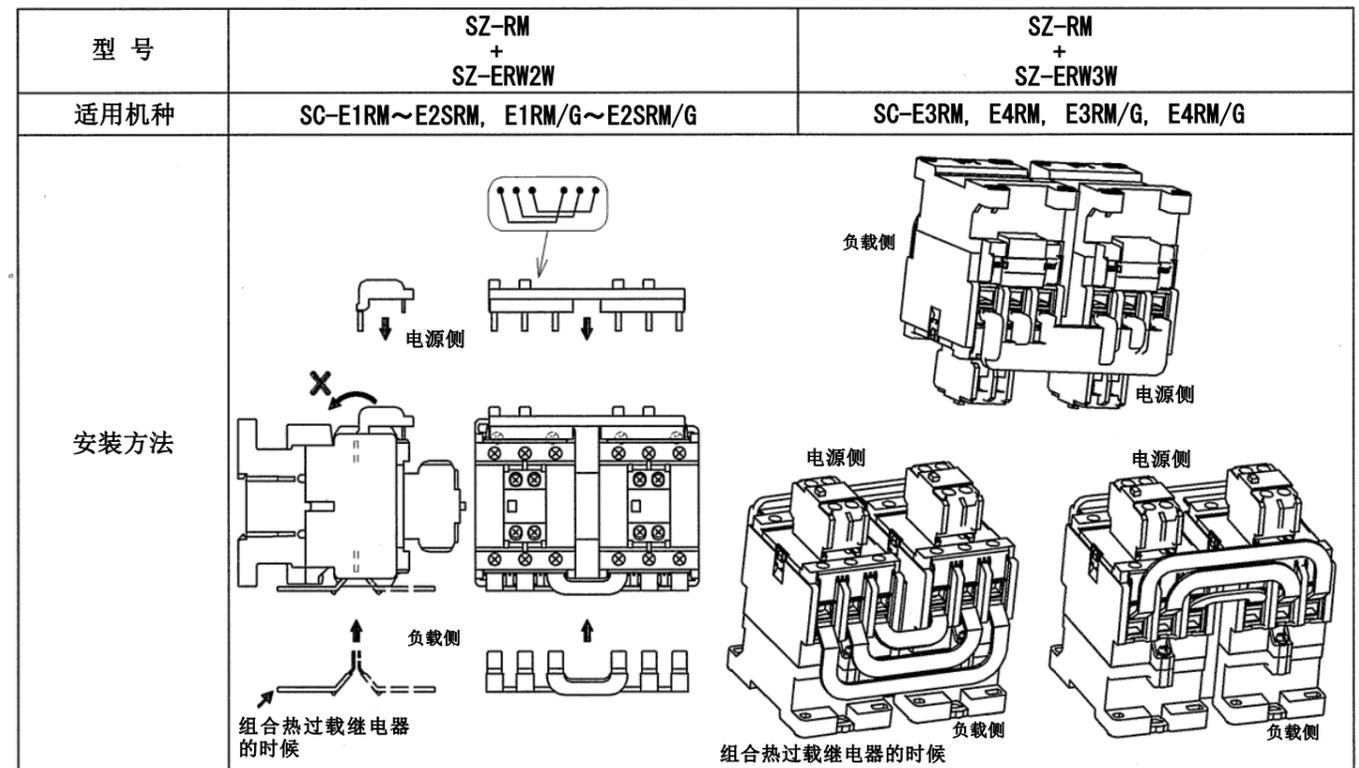


图3

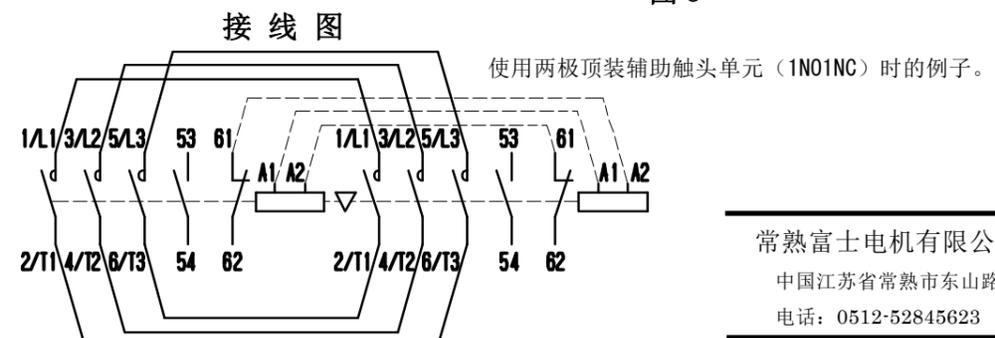


图4

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**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)**

- 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.
- 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)**

- Perform wiring to coil terminals before attaching power connection kit
- Connect the kit to main circuit terminals. The kits are available for only the line or load sides. Be sure to wire carefully.
- In case of line side part of "SZ-ERW2W or SZ-ERW3W", insert and connect this part to **front** side terminals. (Fig.3)
- 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)
- 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**

- 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.
- To prevent simultaneous engagement of forward and reverse contactors, be sure to electrically interlock with each other. (Figure4)
- In case of rapid switching use, please keep over 15ms interval by using delay relay and so on for prevention of short circuit accident.

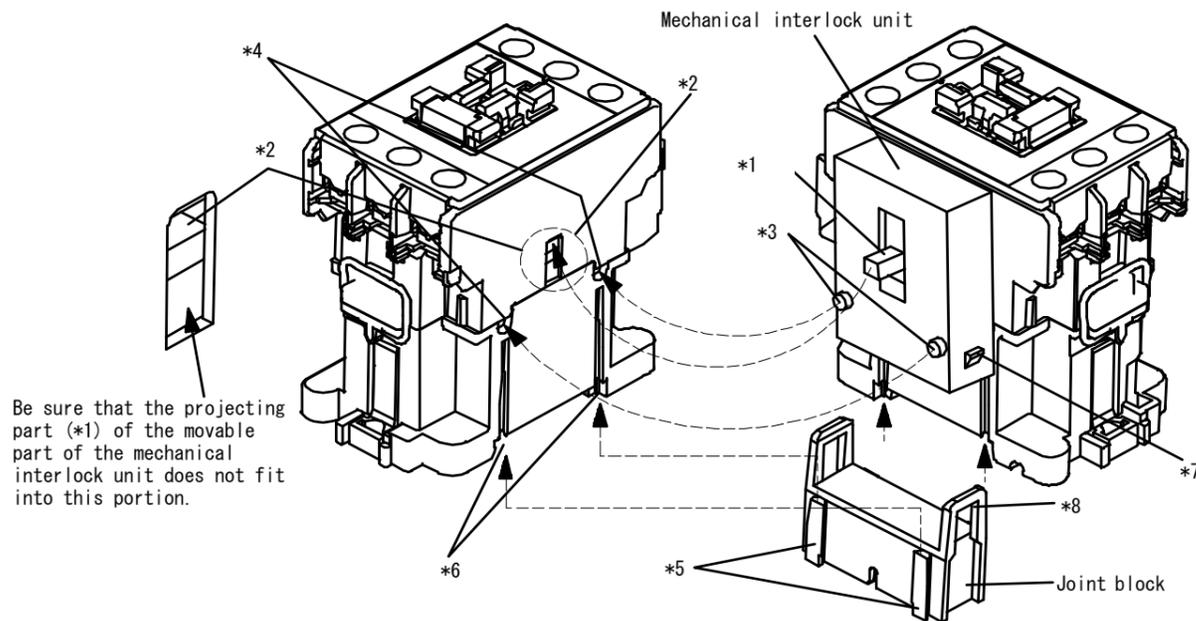


Fig. 1

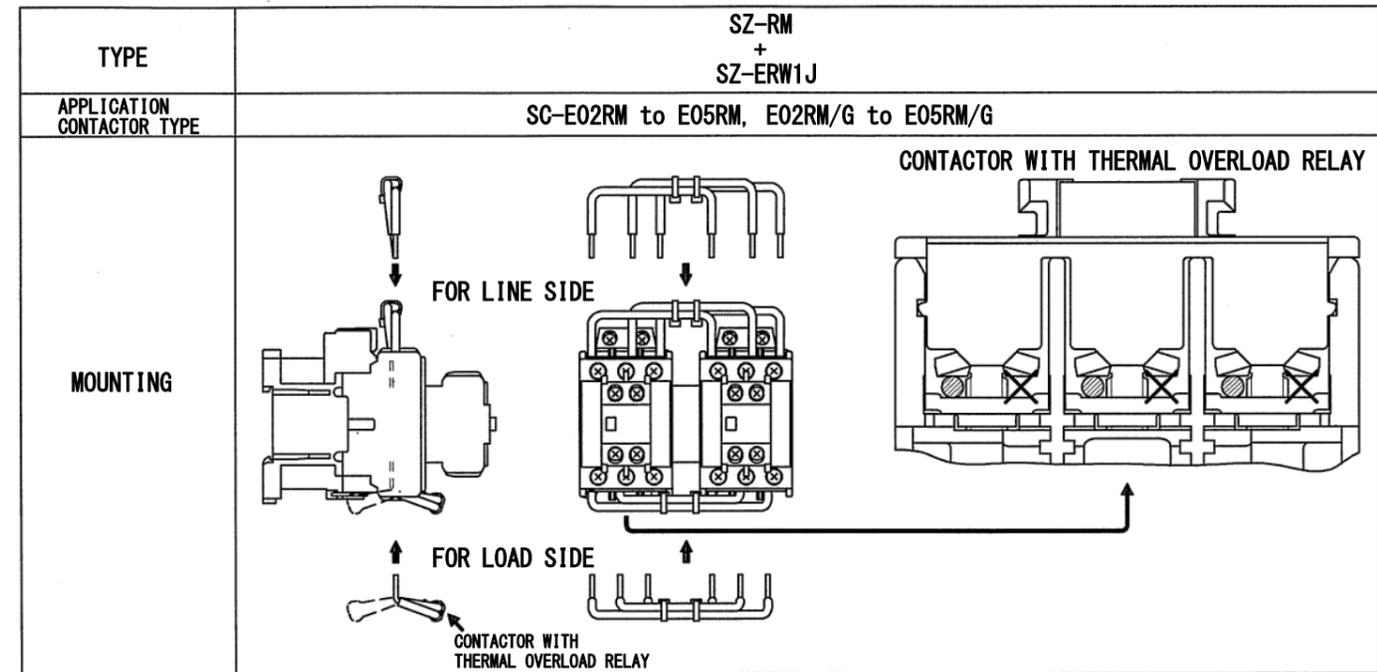


Fig. 2

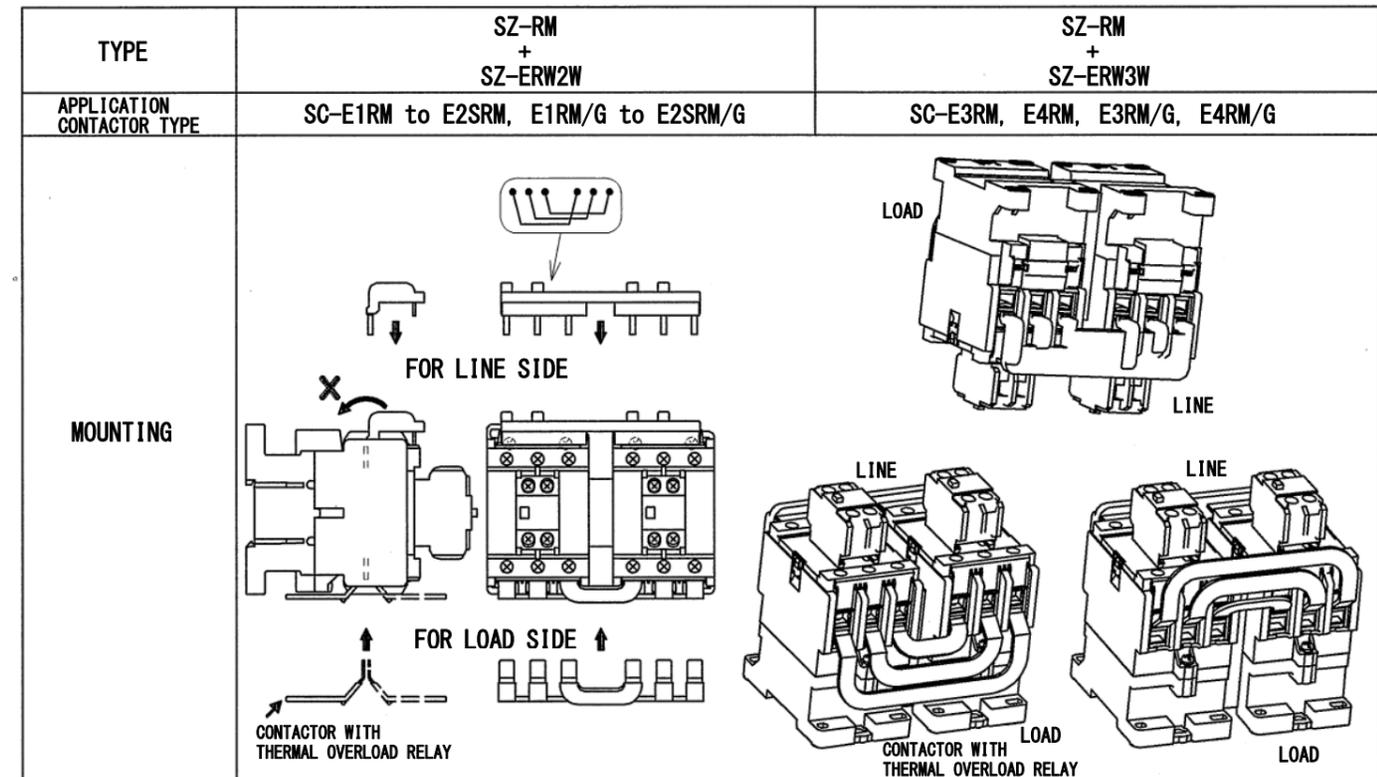


Fig. 3

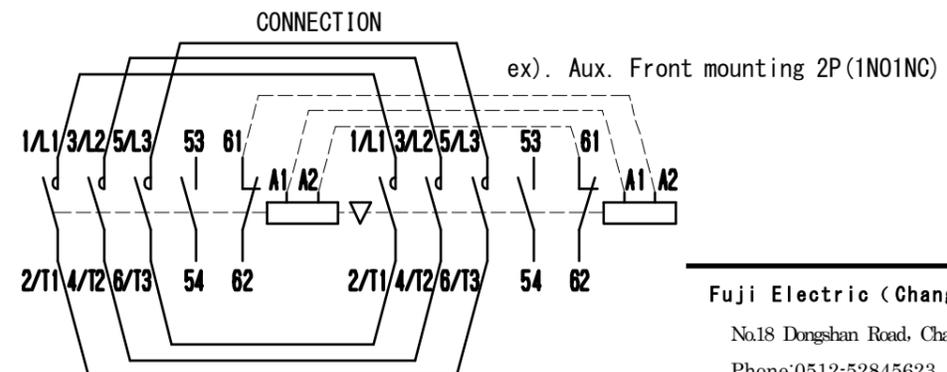


Fig. 4