

ELECTRIC ACTUATOR SA 05 - SCP

ASSEMBLY AND MAINTENANCE INSTRUCTIONS



1. DESCRIPTION

- 1.1 Electric actuator for the motorization of 90° operating valves.
- 1.2 Find the full characteristics of this device on the FT23065 sheets.
- 1.3 Before using this device, read these instructions carefully.

2. WARRANTY

- 2.1 Before any relationship with our services, identify the type of actuator.
- 2.2 SECTORIEL actuators are guaranteed for 12 months from the date of delivery. Parts recognized defective by an expertise in our factory will be replaced at our expense. Claims caused by improper use or modification of the actuator won't be considered.

3. CHECKS UPON RECEIPT

3.1 Upon receipt, check :

- That the packaging is in good condition.
- That the actuator complies with the order.
- That the equipment is not damaged.

3.2 It is recommended that the actuator be installed upon receipt and not left unused. If the equipment must be stored, it must be in a dry place protected from bad weather.

4. PRECAUTIONS FOR USE

- 4.1 Before any installation, ensure that the installation is completely depressurized and brought to room temperature.
- 4.2 Do not install this actuator in an area classified as explosive.
- 4.3 The protection class of the actuator is IP67 for indoor or outdoor installation. Do not install this actuator in a marine environment or immerse it.
- 4.4 The actuator must not be electrically powered during installation and maintenance of the valve on the piping and the actuator on the valve.
- 4.5 Before making the electrical connection, check the supply voltage of the actuator.
- 4.6 Do not connect the actuator in series or parallel with other electric motors. If necessary use relays.
- 4.7 Do not mount the actuator on valves with a torque greater than the nominal torque of the actuator.

Information given as an indication only, and subject to possible modifications.

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5. INSTALLATION AND USE

- 5.1 Install the actuator on the valve (already done for the assemblies assembled in our workshops)
5.2 Carry out the electrical wiring as shown in the diagram below.



Safety actuator: charge the supercapacitors before commissioning. The emergency function will not be operational if the supercapacitors are not charged.

Loading time	
24 V DC	230 V AC
2 min 15 sec	4 min 30 sec

- 5.3 Adjust the end stops (already done for the assemblies assembled in our workshops).
5.4 Visualize the valve movement using the indicator light on the hood.
5.5 SA 05-SCP actuator: To operate the manual control, first disconnect the power supply electric then operate the hollow hexagonal screw using a 6 mm hex key.

6. ADJUSTING THE LIMIT SWITCHES

- 6.1 The cams are fixed on the drive shaft.
6.2 Clockwise rotation = valve closing. The microswitch stops the actuator.
6.3 Counterclockwise rotation = valve opens. The microswitch stops the actuator.

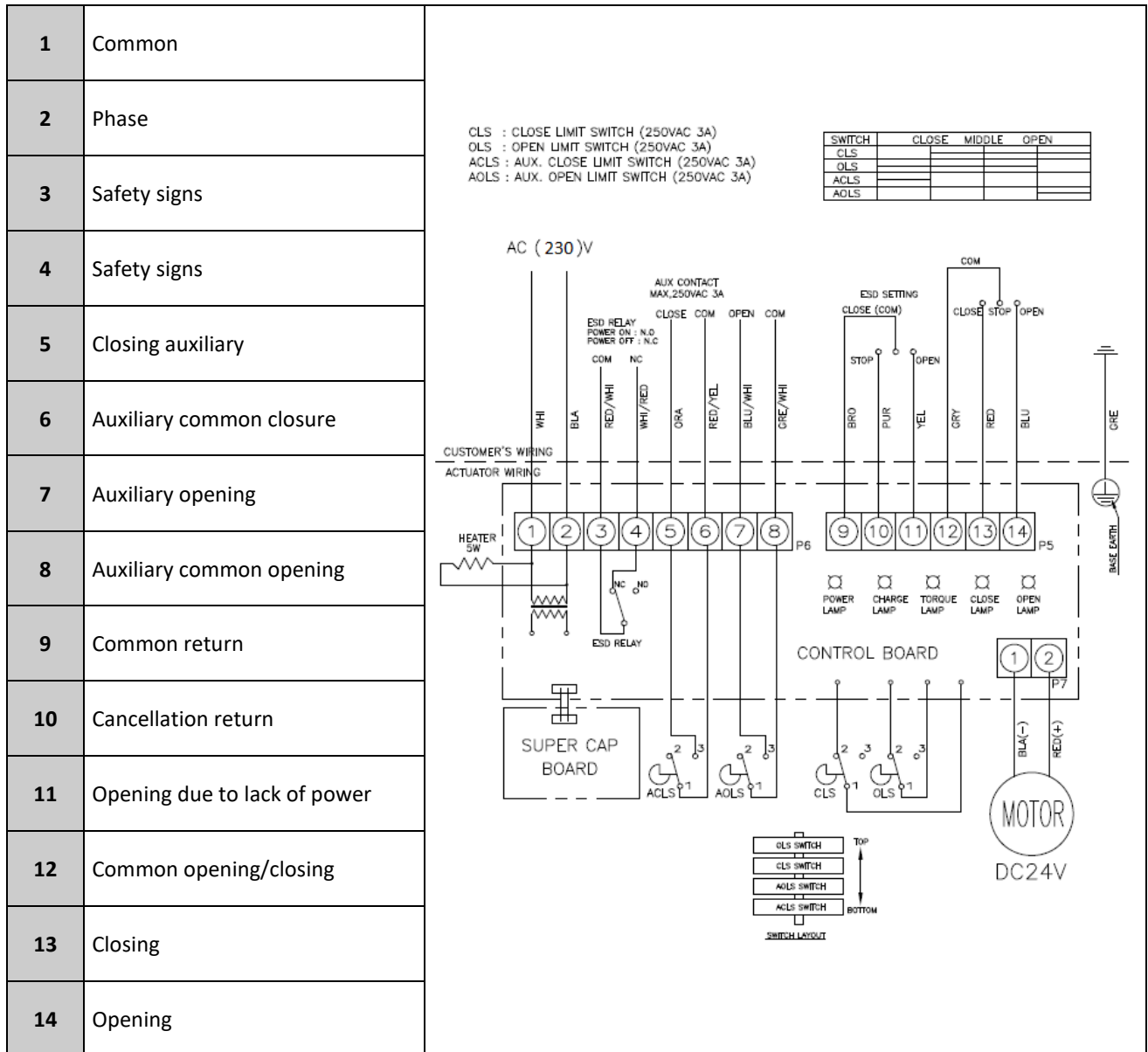
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7. WIRING DIAGRAM 230V AC 50Hz



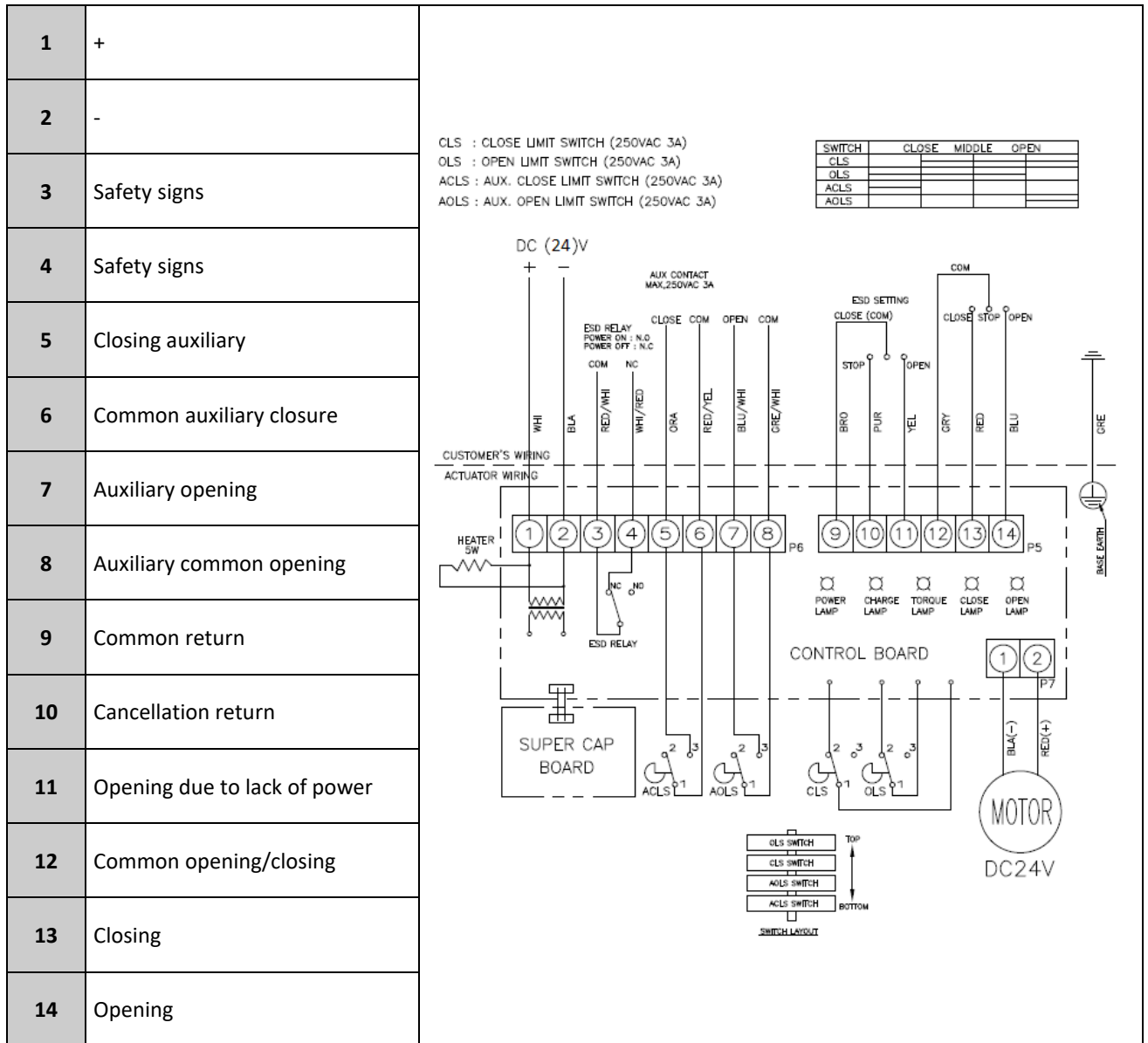
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8. 24V AC/DC WIRING DIAGRAM



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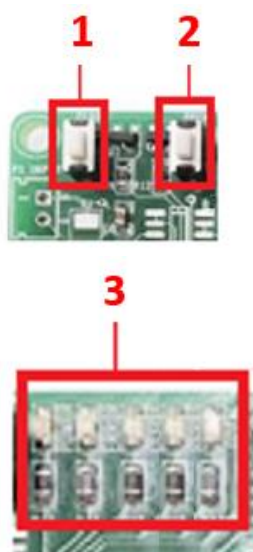
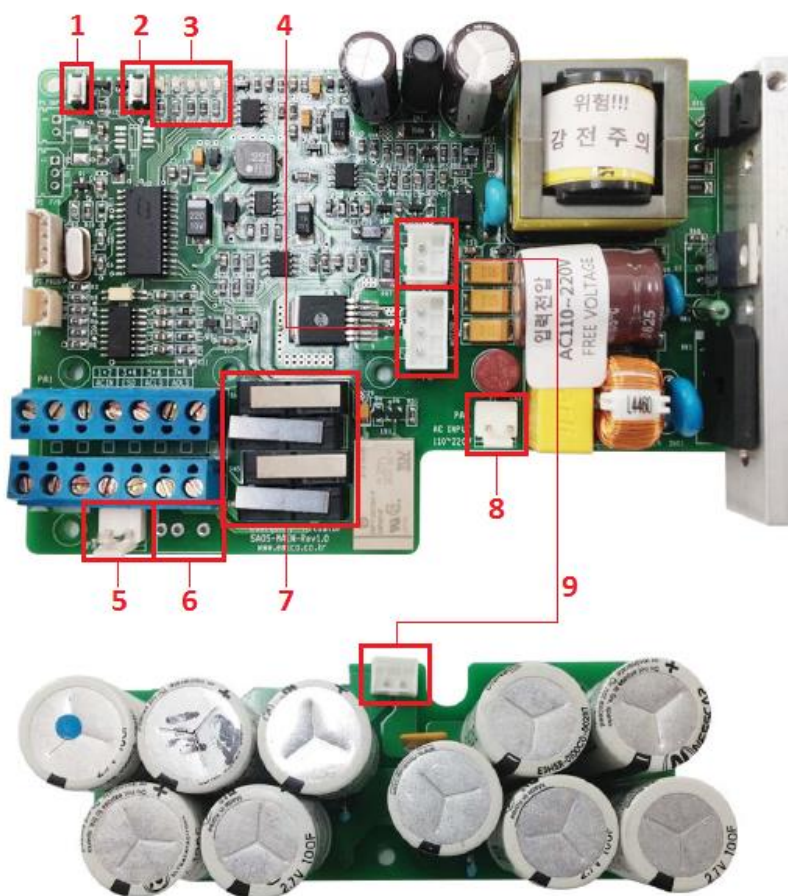
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9. SCP CIRCUIT

No.	Designation
1	Close button
2	Open button
3	Indicator lights
4	Engine connector
5	220V connector
6	Resistances
7	Limit switches
8	220V connector
9	Power, capacitor and card connector



- 1 - Closing: closing takes place when the button is pressed.
- 2 - Opening: Opening takes place when the button is pressed.
- 3 - Power indicator lights/Blue if motor powered.
- 4 - Indicator lights charge/off when charged.
- 5 -Torque indicator lights/lights up if over-torque.
- 6 -Closing indicator light/lights up green when fully closed.
- 7 -Opening indicator light/lights up red if fully open.

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