

ELECTRIC ACTUATOR NA - SCP

FEATURES

The NA SCP electric actuator is designed to motorize 1/4-turn valves for industrial use with a safety function. The actuating torque ranges from 50 to 280 Nm. This actuator is fitted with super capacitors enabling it to operate once (open or close) in the event of a power cut. The charging time of the super capacitors must be taken into account. The NA actuator has robust design with an IP67 epoxy-coated aluminum housing, making it particularly suitable for actuating ball and butterfly valves installed in workshops or outdoors. The NA SCP is equipped with a manual override via a disengageable handwheel and a 3D visual position indicator. It complies with the ISO 22153 standard.

AVAILABLE MODELS

NA09 SCP : 90 Nm

NA15 SCP : 150 Nm

NA28 SCP : 280 Nm

Supply voltages : 230V AC (50-60Hz).



LIMITS OF USE

Protection class	IP 67
Ambient temperature	NA SCP - 20°C / +70°C
Service factor	S2-70%

MECHANICAL CHARACTERISTICS

Gear box	Treated steel pinions
Torque	90 Nm / 150 Nm
Rotation angle	90° ± 5°
Clutch release	Yes
Overriding control	By steering wheel



Actuator	NA 09 SCP	NA 15 SCP	NA 28 SCP
Voltage	230V AC		
Torque (Nm)	90	150	280
Manoeuvring time (s)	17	20	22
ISO 5211	F07 star of 17	F07/F10 star of 17	F10/F12 star of 22

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ELECTRIC ACTUATOR NA - SCP

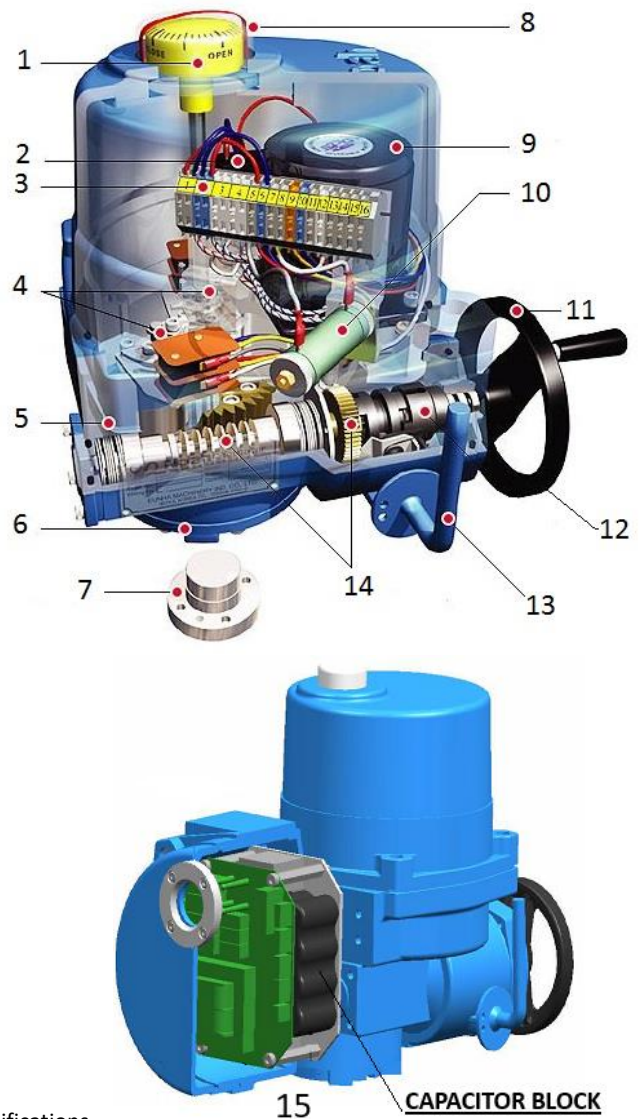
ELECTRICAL FEATURES

Motor protection	Thermal limiter	Resistance heater	20W resistor
Limit switches	2 adjustable contacts	Electrical connection	Per PE M20 x 1.5
Contacts auxiliaires	2 contacts secs réglables		

Electric actuator	NA 09 + SCP	NA 15 + SCP	NA 28 + SCP
Voltage	230V AC		
Power (W)	25	40	40
Intensity (A)	0,37	0,43	1,13
No. of emergency manoeuvres	8,5	10	12,5
Charge voltage	26,5 V		
Load current (A)	0,45		1,1
Charging time	3 min 30 sec		2 min

CONSTRUCTION

1	Position indicator	Polycarbonate
2	Capacitor	
3	Wiring terminal block	
4	Wiring terminal block	
5	Housing	Aluminium alloy
6	Base	Aluminium alloy
7	Nuts	Steel
8	Dome	Polycarbonate
9	Electric motor	
10	Anti-condensation resistance	
11	Wheel	Steel
12	Manual override	Steel
13	Clutch release lever	Steel
14	Worm gear	Steel
15	Capacitor block	

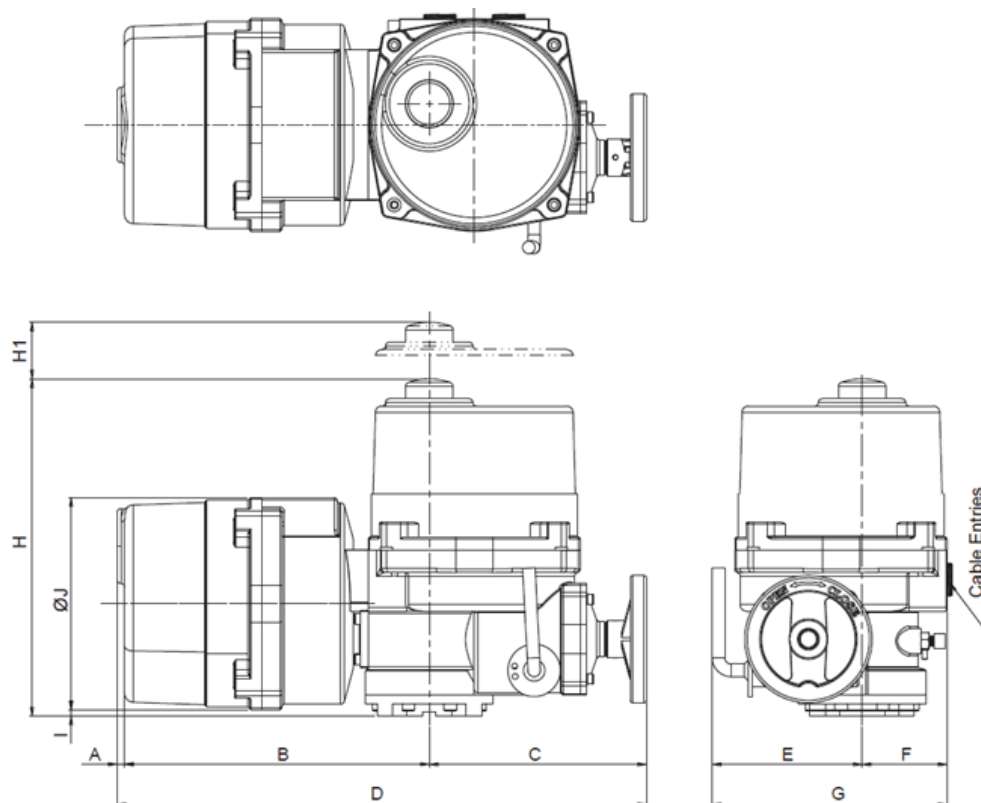


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DIMENSIONS (mm) AND WEIGHT (Kg)



Rep	A	B	C	D	E	F	G	H	H1	ØJ	Weight (kg)
NA 09 SCP	6	244	174	424	120	68	188	270	108	170	13,5
NA 15 SCP	6	265	184	455	139	85	224	274	108	170	16
NA 28 SCP	6	270	202	478	159	95	254	321	130	170	18,5

SPARE PARTS

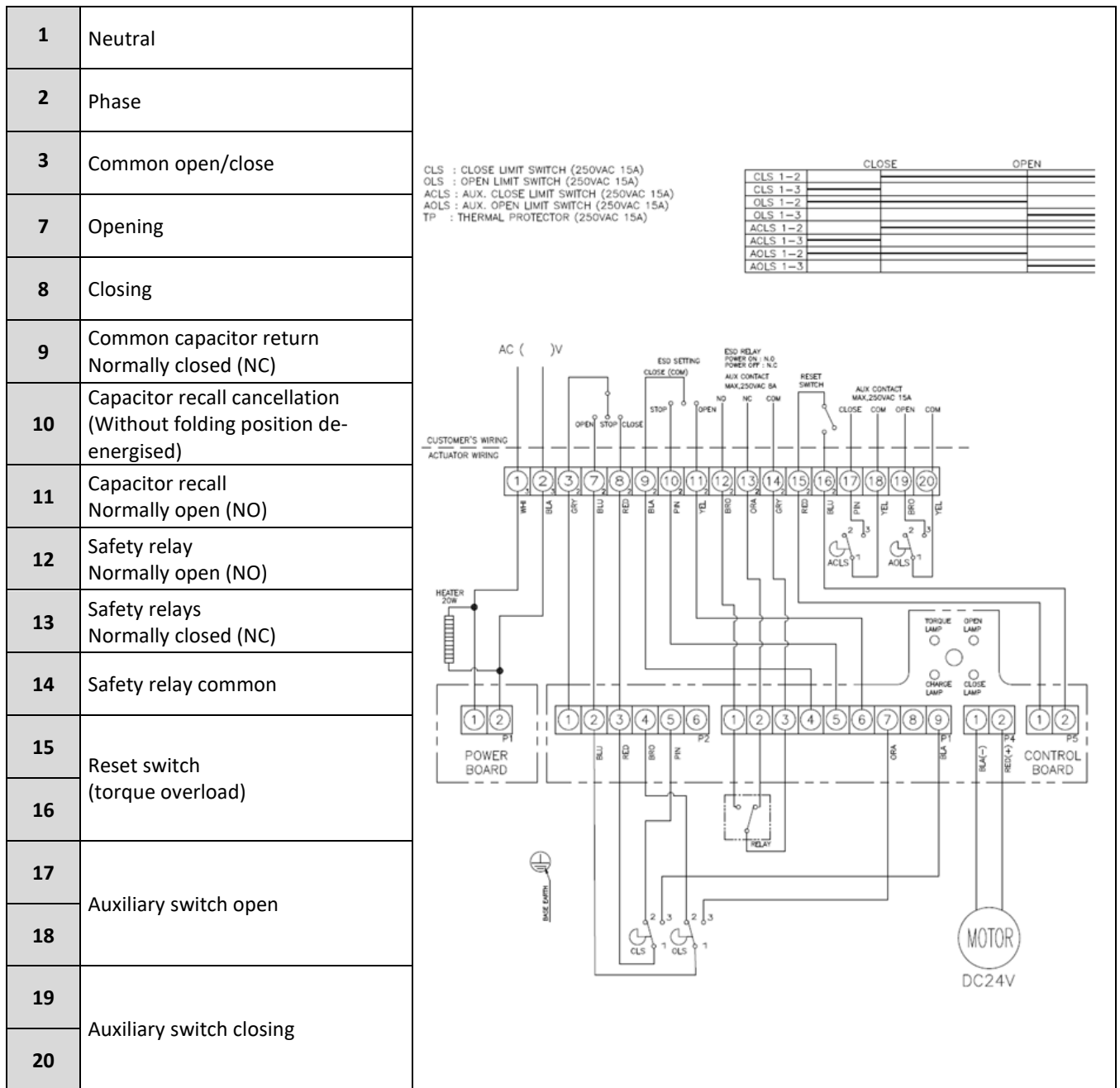
Electric actuator NA09 / NA15 / NA28 + SCP	
Motor	
Circuit board + capacitor	
Wheel	
https://www.sectoriel.com/fr/na-scp-servomoteur-electrique-retour-condensateur-ip67-230v-ca.html	

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ELECTRIC ACTUATOR NA - SCP

WIRING DIAGRAM NA09 SCP for VOLTAGE 230V AC 50Hz

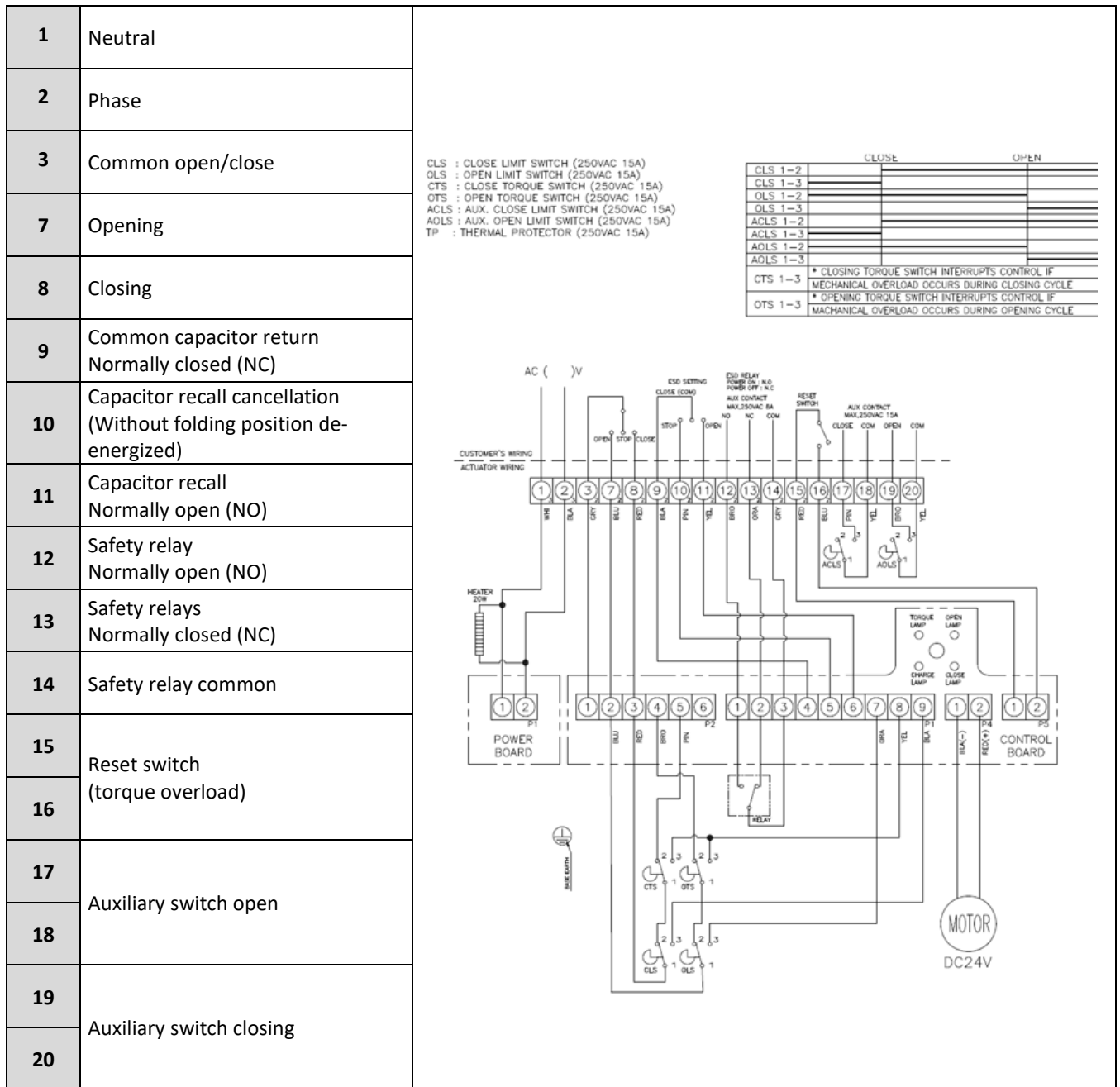


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ELECTRIC ACTUATOR NA - SCP

SCHEMA DE CABLAGE NA15 SCP pour TENSION 230V CA 50Hz



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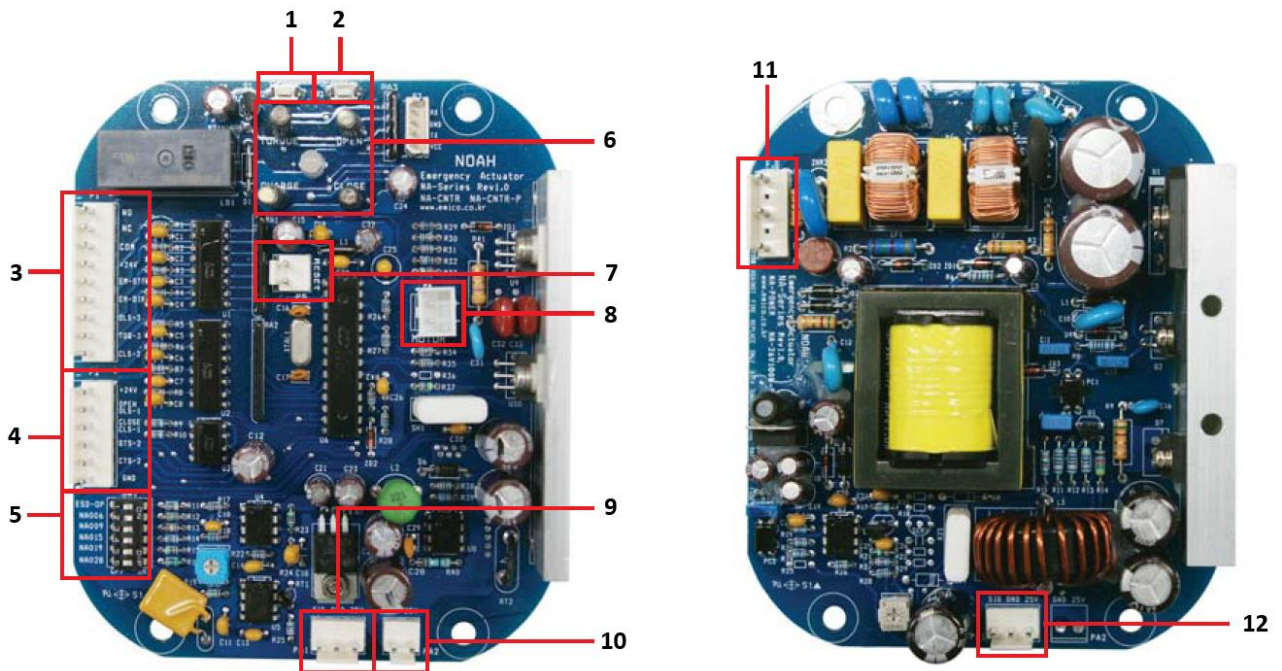
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SCHEMA DE CABLAGE NA28 SCP pour TENSION 230V CA 50Hz

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ELECTRIC ACTUATOR NA - SCP

CIRCUIT DESCRIPTION NA-SCP



N°	Name
1	Closing button
2	Opening button
3	Esd connector
4	Control connector
5	DIP switch
6	Lampes LED
7	Reset connector
8	Motor connector
9	Power supply board control connector
10	Super capacitor connector
11	Power connector
12	Power and control board connector

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ELECTRIC ACTUATOR NA - SCP

1 - Close button	2 - Open button	
		Closing : by pressing button 1
		Opening : by pressing button 2

5 - DIP switch	ESD - OP (Default : Off)
	When ESD - OP DIP switch is OFF: The actuator operates according to the fault setting.
	When ESD - OP DIP switch is ON : In the event of a power failure, the actuator returns to its original position.
	If the main power supply is cut off when the actuator is at a standstill, the actuator will be in the fault position.

ESD - OP DIP switch	Operation with main power supply		Fail action
ON	Open running	Power failure →	Open running
	Stop		Close running
OFF	Open running	Power failure →	Close running
	Stop		Close running

One of the DIP switches for NA006-NA028 must be activated according to the actuator model. By detecting the value of the motor current, the actuator and the application can be stopped to protect them from over-torque.

8 - LED		LED indicator : torque	Actuator over torque
		LED indicator : Opening	Actuator full open
		LED indicator : Closing	Actuator full close
		LED indicator : Charge	Charge

Name	LED				Remark
	Open	Close	Torque	Charge	
Power supply ON	Flickering	Flickering	Flickering	Flickering	3 times
Full open	On				
Open running	Flickering				
Full close		On			
Close running		Flickering			
Mechanical over-torque			On		
Electrical over-torque			Flickering		
Charge (23V) ↓				Flickering	
Charge (23V) ↑				Off	
ESD (Open)	Flickering and then off				
ESD (Close)		Flickering and then off			
Disconnected	Flickering	Flickering			Disconnected to the board

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9 - Reset connector

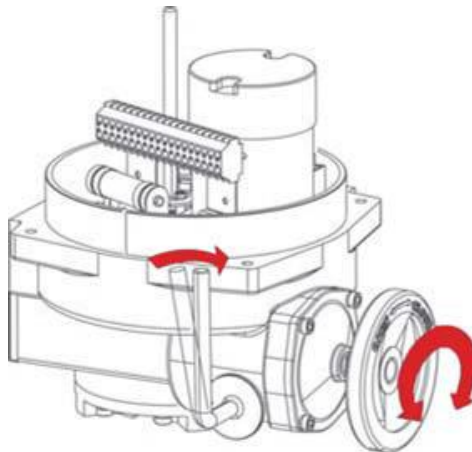


In the event of over-torque, restart the control board.

* It is not necessary to restart the power supply to the main board if technical assistance is required.

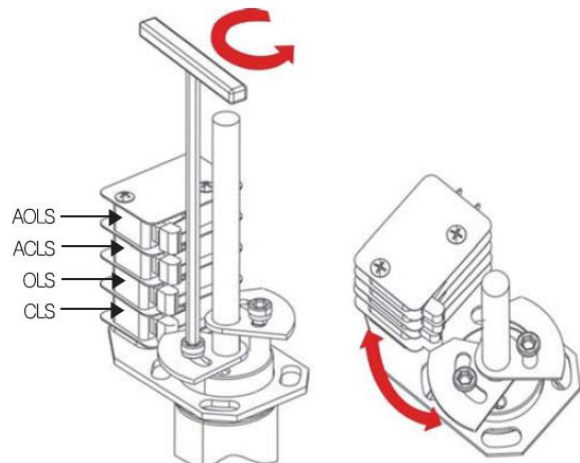
ADJUSTING LIMIT SWITCHES

Pull the lever on the side of the handle towards the handle to straighten it, then turn the handle clockwise to close the actuator completely.



Loosen the fixed bolt on the closing limit switch and align the limit switch with the contact point on the microswitch.

AOLS	auxiliary limit switch open
ACLS	auxiliary limit switch closed
OLS	limit switch open
CLS	limit switch closed



Tighten the fixed bolt firmly again.

To set the opening limit switch, follow the instructions for setting the closing limit switch.

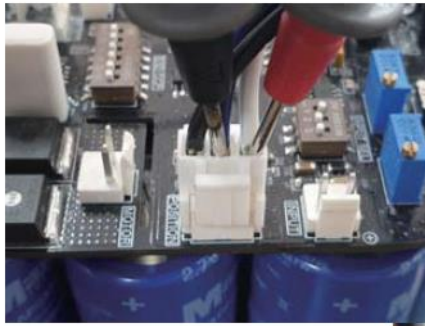
For further information, please refer to the NA series manual.

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POTENTIOMETERS SETTING



Potentiometer Measurement
(White – Blue)



Change the potentiometer
value by altering the gear



Potentiometer Check

Completely close the actuator and de-energize it by moving the gear.



Warning when setting the potentiometer :

When setting the resistance value on the potentiometer, always switch off the actuator.
If the instrument is switched on, the resistance value on the calibrator will not be displayed correctly.

When you have finished adjusting the appliance, fix the grub screw so that the gear does not move.

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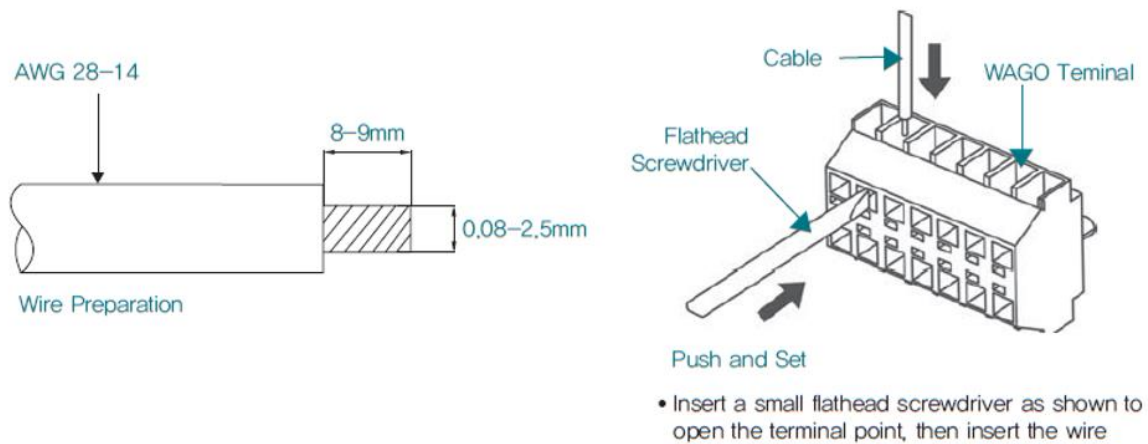
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ELECTRICAL WIRING

Separate the cover from the electric actuator by loosening the four cover bolts.

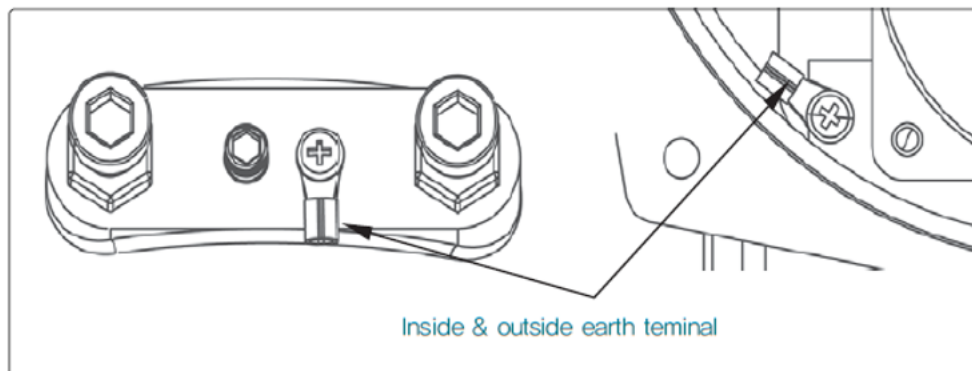
Confirm that the wiring diagram inside the electric actuator and the wiring number on the nameplate match.

Confirm that the main power supply and the power supply described on the nameplate of the electric actuator match each other.



The NA series uses a WAGO® terminal block for easy wiring and protection against vibration.

Ensure that the electric actuator wiring is correctly earthed at the earthing terminals located inside and outside the actuator body.



Make sure that the heater supplied is wired and switched on.

Each electric actuator must be powered by its own relay to prevent voltage feedback and damage to the actuator.

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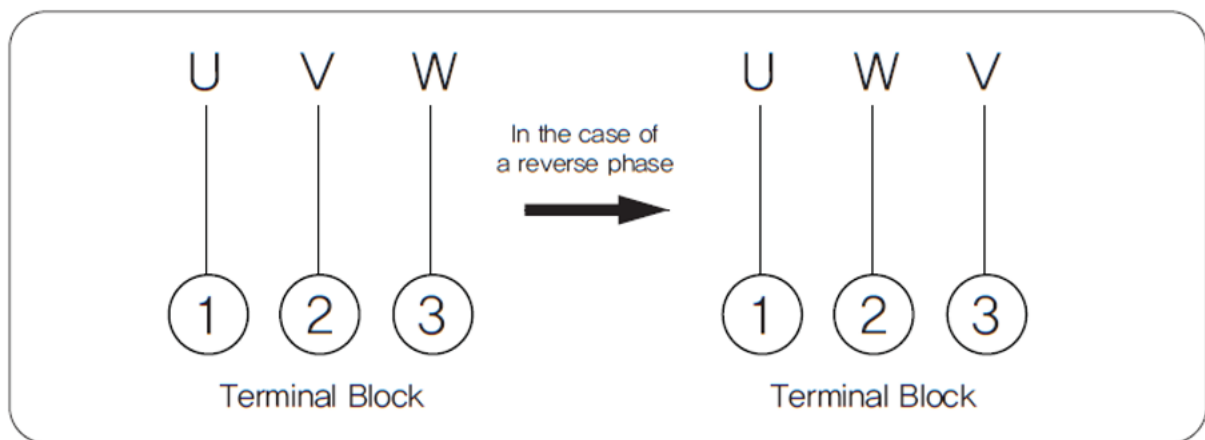
With an electric actuator supplied with three-phase current (380V, 440V), care must be taken to confirm correct motor rotation when the power supply and signal are applied.

If the electric actuator turns in the opposite direction to that intended, the limit switches will not operate correctly and there has been a wiring error. Corrective action must be taken.

With the power off, manually operate the electric actuator to the mid-position.

Apply power/signal to rotate the electric actuator to the open or closed position and confirm that rotation is correct.

If the rotation is incorrect, stop the electric actuator and rewire two of the three wires as shown.



Once you have completed the wiring in the electric actuator, use cable ties to clean the actuator and bundle the wires, and ensure that the wires are secured away from any moving parts, and remove any loose debris.

When you have finished, replace the cover and secure it with the four cover screws.

Switch on the appliance and carry out a final check to confirm that it is operating correctly.



The main power supply must only be applied when the top cover is replaced on the body of the electric actuator.

If the main power supply is on while the electric actuator is being wired, stop work immediately and switch off the power supply.

Only then can you proceed in complete safety.

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