

# SERVOMOTEURS ELECTRIQUES TYPE NA/NAX

## CARACTERISTIQUES GENERALES

Les servomoteurs électriques NA sont destinés à la motorisation des vannes ¼ de tour possédant un couple de manœuvre de 60 Nm à 1000 Nm maximum. De construction compacte avec carter en aluminium revêtu époxy protection IP67, ils sont particulièrement bien adaptés à la motorisation des vannes à sphère et à papillon. Fonctionnement 3 points.

NAX : version ATEX EEx d II B T4 pour atmosphère explosive.



## CARACTERISTIQUES MECANIQUES

Réducteur en acier

Commande manuelle de secours par volant manuel débrayable

Indicateur de position sur capot supérieur

Raccordement à la vanne par platine ISO 5211

Entraînement par étoile

Butée de fin de course mécanique

Limiteur de couple (sauf sur NA06 et NA 09)

## CARACTERISTIQUES ELECTRIQUES

Protection thermique du moteur

Raccordement électrique par PE-M20 x 1.5 (non fourni)

2 contacts fin de course réglables

2 contacts auxiliaires secs 250V 16A

Résistance anti-condensation 2W / TS - 20°C / +70°C

## FACTEUR DE SERVICE

Durée sous tension : service S2, 70%.

## LIMITES D'UTILISATION

Température extérieure minimum : - 20°C

Température extérieure maximum : 70°C

Protection IP 67

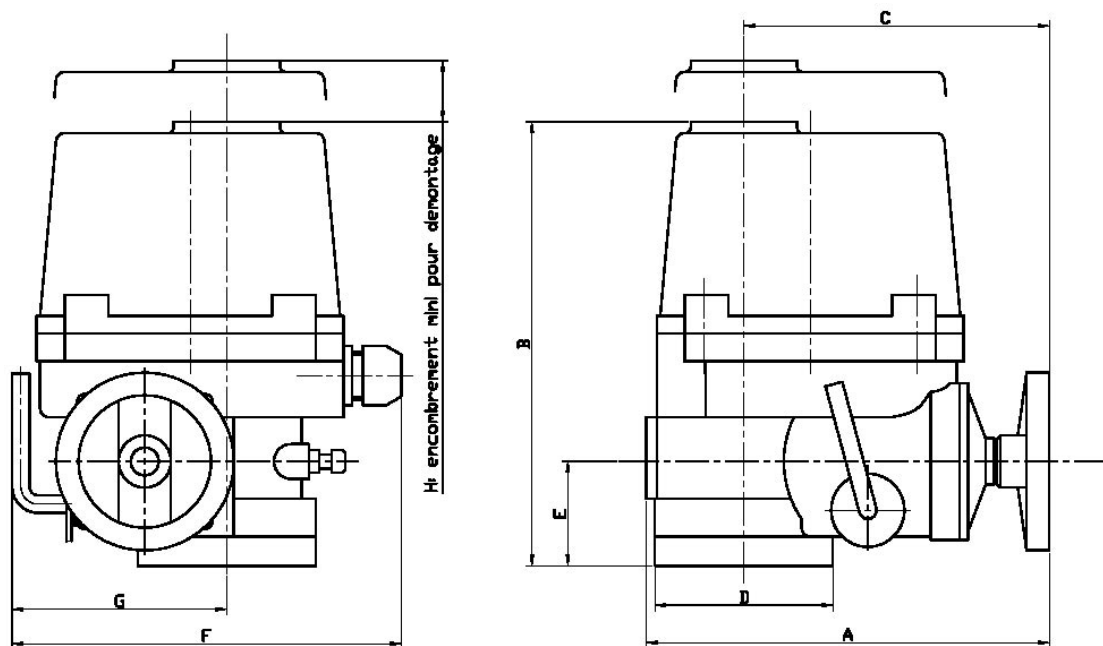
## OPTIONS

Tri 400V, 110V, 24 Vac/cc, potentiomètre de recopie, commande 4-20mA, commande locale

## CONSTRUCTION

Carter	Aluminium revêtu époxy
Capot	Aluminium revêtu époxy
Réducteur	Acier
Axe	Acier
Cames	Acier

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## DIMENSIONS

Dimensions (mm)	A	B	C	D	E	F	G	H
NA/NAX 06/09	231	255	175	102	60	223	113	108
NA/NAX 15/19	261	255	184	120	60	266	139	108
NA/NAX 28/50	285	302	202	145	70	300	159	130
NA/NAX 60/100	325	343	226	175	78	349	191	178

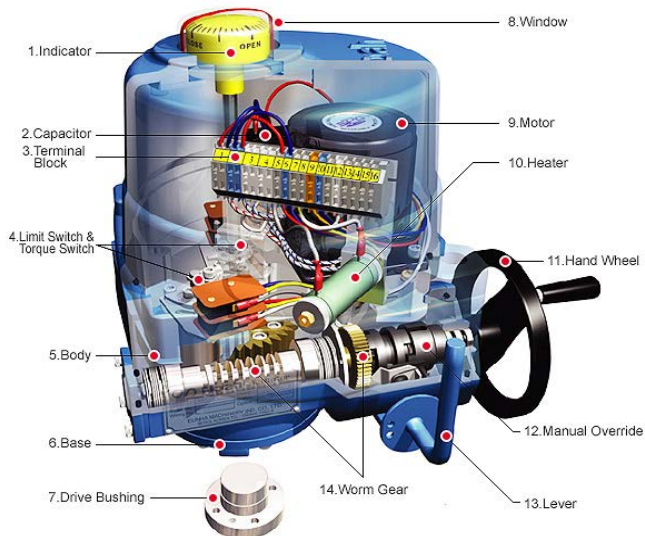
## AUTRES CARACTERISTIQUES

Moteur	Couple (Nm)	Tension	Temps (s)	Puissance (W)	ISO	Etoile (mm)
NA06	60	230 V ca	17	15	F07	17
NA09	90	230 V ca	17	25	F07/F10	17
NA15	150	230 V ca	20	40	F07/F10	17
NA19	190	230 V ca	20	40	F07/F10	17
NA28	280	230 V ca	24	40	F10/F12	22
NA38	380	230 V ca	24	60	F10/F12	27
NA50	500	230 V ca	24	90	F12/F14	27
NA60	600	230 V ca	29	90	F12/F14	27
NA80	800	230 V ca	29	180	F12/F14	27
NA100	1000	230 V ca	29	180	F12/F14	27

## MONTAGE, CABLAGE, ENTRETIEN ET REGLAGES

Voir notice Instructions de Montage et d'Entretien N° IME23100

### Actuators NA-NAX



### **1. DESCRIPTION**

- 1.1 Electrical actuator for  $\frac{1}{4}$  turn valves.
- 1.2 Complete description on technical data sheet 23100.
- 1.3 Before any use, read carefully this manual.

### **2. GARANTY**

- 2.1 Before contacting us, make sure to identify the type of actuator.
- 2.2 The SECTORIEL actuators are guaranteed 12 months after the delivery date. The defective pieces, after our expertise, will be replaced at our own expenses. We will not accept any claim of damage caused by a wrong use or modification of the actuator.

### **3. VERIFICATIONS AT THE DELIVERY**

- 3.1 When delivered, check :
  - quality of the package,
  - conformity of the actuator to the ordered one,
  - possible damages.
- 3.2 It is recommended to install the actuator right after the delivery and not to leave it without using it. If the device is stored, it has to be in a dry and sheltered place.

### **4. PRECAUTIONS OF USE**

- 4.1 Before installation, please check that there is no depressurisation and that the temperature is normal.
- 4.2 Do not install in an explosive area.
- 4.3 For an indoor and an outdoor installation, the protection class is IP67. Do not immerge the actuator nor install it in a marine area.
- 4.4 Do not connect the actuator to the electricity during the installation or during the maintenance of the valve on the pipe or the actuator on the valve.
- 4.5 Check the input voltage of the actuator before connecting.
- 4.6 Do not install the actuator in parallel with others. If necessary, use relays.
- 4.7 Do not install the actuator on valve with torque bigger than the nominal torque of the actuator.

### **5. INSTALLATION AND USE**

- 5.1 Install the actuator on the valve (already done for actuated valve supplied by ourselves).
- 5.2 Do the wiring as indicated below.

# ELECTRICAL ACTUATORS TYPES NA/NAX

## INSTALLATION AND MAINTENANCE MANUAL

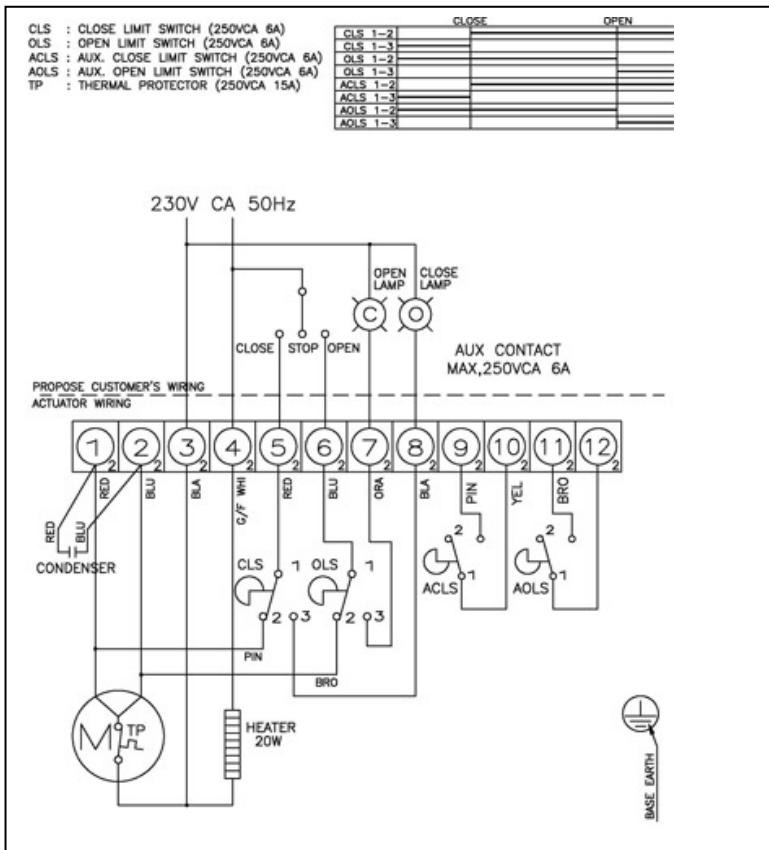
5.3 Adjust the end switches (already done for actuated valve supplied by ourselves).

5.4 Check the move of the valve with the window on the cover.

5.5 The NA/NAX actuator can be clutched and declutched under voltage: to select the manual gear, engage first the lever 13 then use the handwheel 12.

### 7. CONNECTING SKETCH

#### Wiring for 230V 50Hz (NA06-NA09)

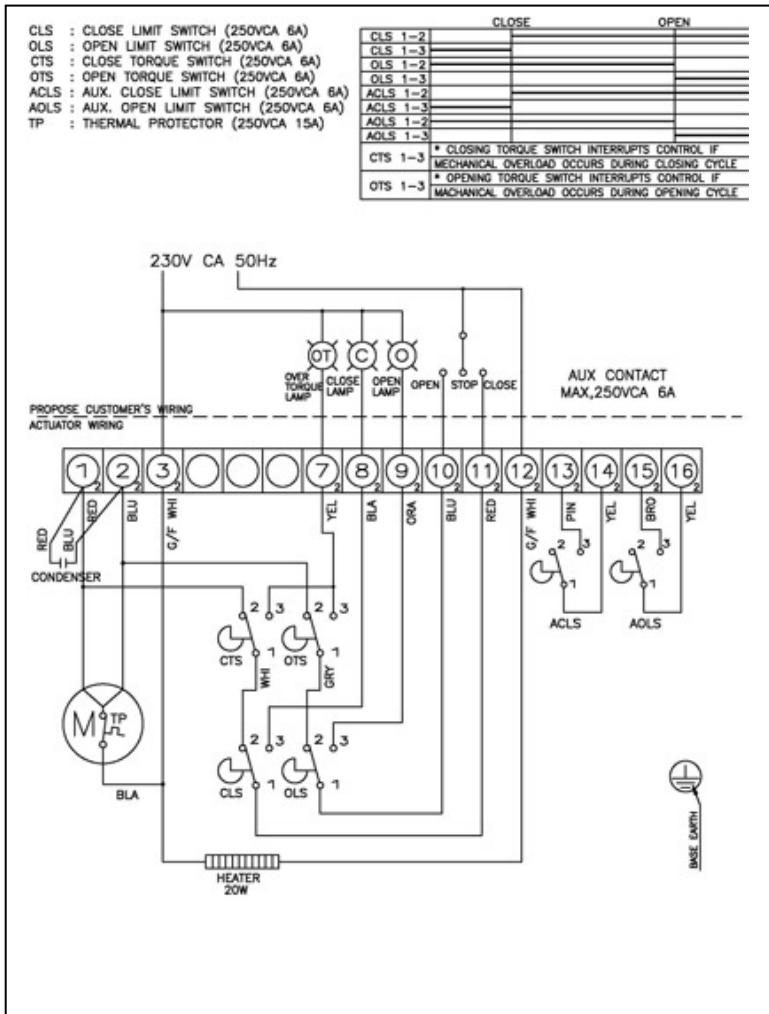


1	Do not use
2	Do not use
3	Common
4	Phase
5	Control closing
6	Control opening
7	Opening indicator (suggestion)
8	Closing indicator (suggestion)
9	Auxiliary switch closing
10	Auxiliary switch closing
11	Auxiliary switch opening
12	Auxiliary switch opening

# ELECTRICAL ACTUATORS TYPES NAX/NAX

## INSTALLATION AND MAINTENANCE MANUAL

Wiring for voltage 230V 50Hz (other types)

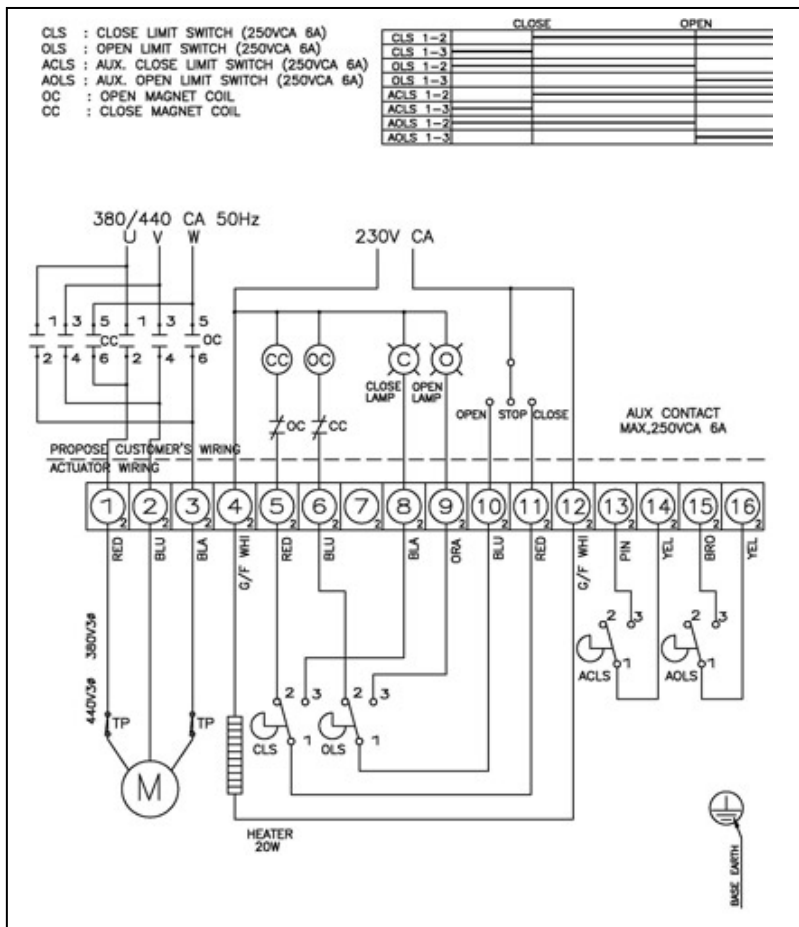


1	Do not use
2	Do not use
3	Common
7	Surcharge indicator (suggestion)
8	Closing indicator (suggestion)
9	Opening indicator (suggestion)
10	Control opening
11	Control closing
12	Phase
13	Auxiliary switch closing
14	Auxiliary switch closing
15	Auxiliary switch opening
16	Auxiliary switch opening

# ELECTRICAL ACTUATORS TYPES NA/NAX

## INSTALLATION AND MAINTENANCE MANUAL

Wiring for voltage 380V 50Hz (NA06-NA09)

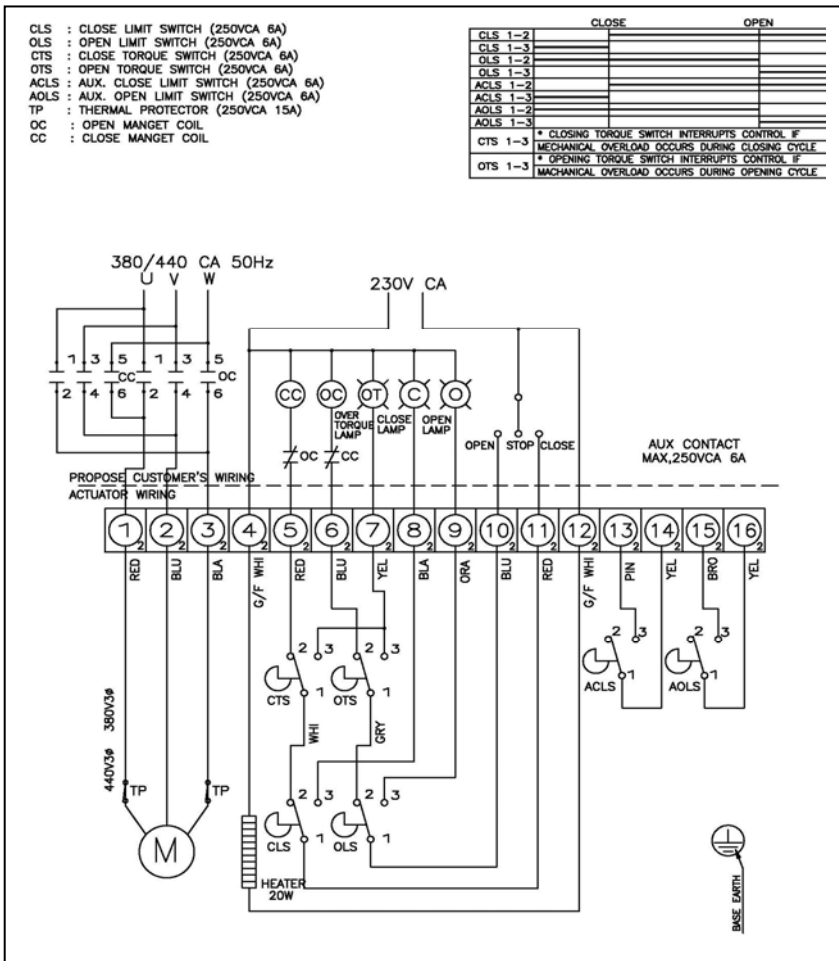


1	Phase U
2	Phase V
3	Phase W
4	Resistance input
5	Connected to closing 11
6	Connected to opening 10
7	Not used
8	Closing indicator (suggestion)
9	Opening indicator (suggestion)
10	Control opening
11	Control closing
12	Resistance input
13	Auxiliary switch closing
14	Auxiliary switch closing
15	Auxiliary switch opening
16	Auxiliary switch opening

# ELECTRICAL ACTUATORS TYPES N/A/NAX

## INSTALLATION AND MAINTENANCE MANUAL

Wiring for voltage 380V 50Hz (other types)



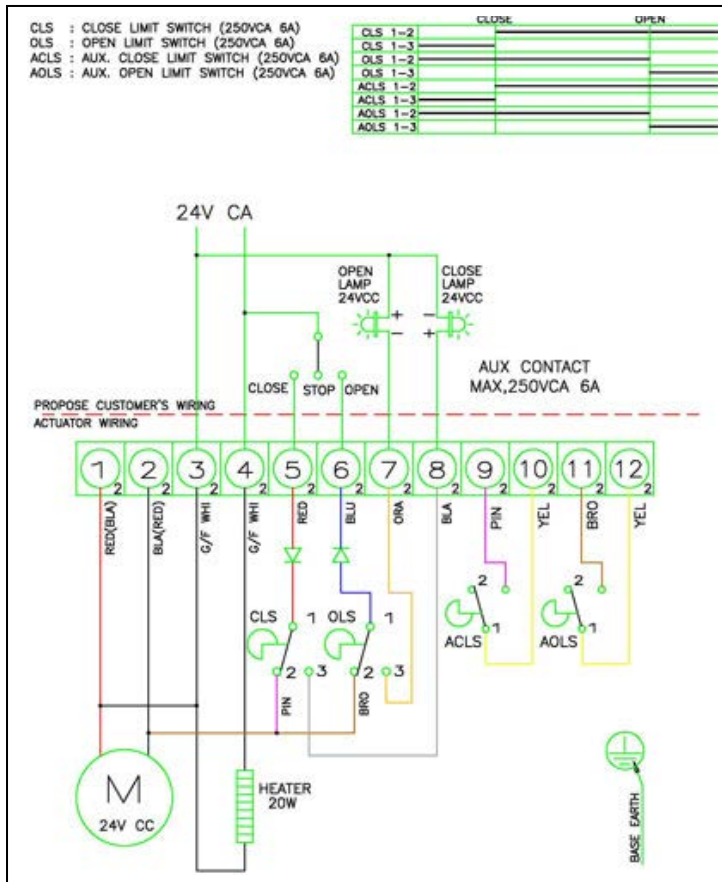
1	Phase U
2	Phase V
3	Phase W
4	Resistance input
5	Connected to closing 11
6	Connected to opening 10
7	Surcharge indicator (suggestion)
8	Cosing indicator (suggestion)
9	Opening indicator (suggestion)
10	Control opening
11	Control closing
12	Resistance input
13	Auxiliary switch closing
14	Auxiliary switch closing
15	Auxiliary switch opening
16	Auxiliary switch opening



# ELECTRICAL ACTUATORS TYPES NA/NAX

## INSTALLATION AND MAINTENANCE MANUAL

Wiring for voltage 24V 50Hz (NA06-NA09)



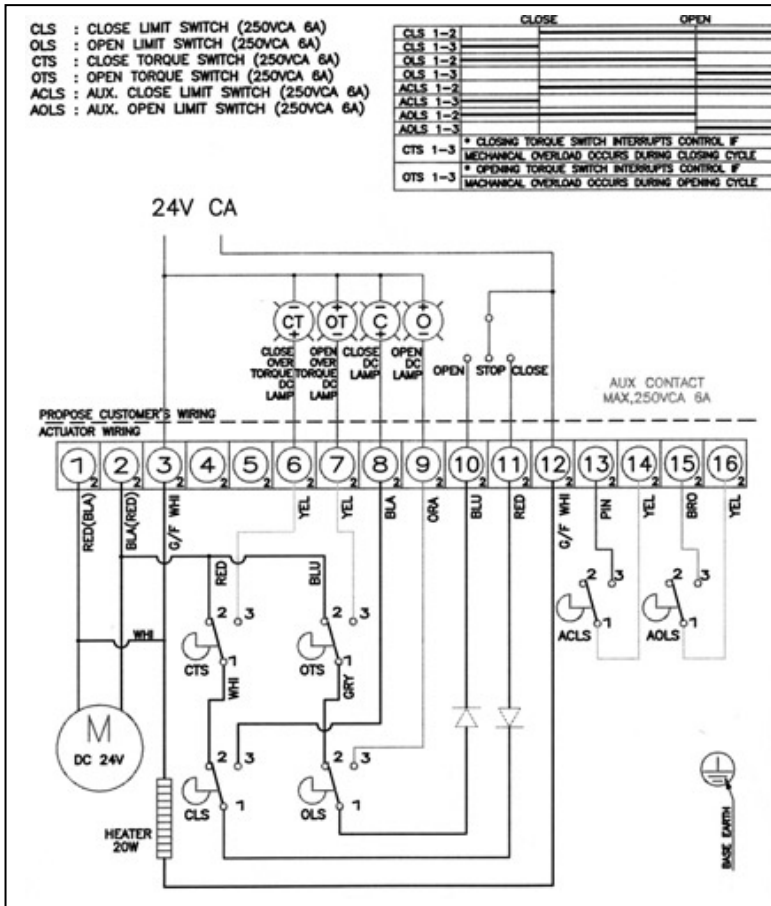
1	Do not use
2	Do not use
3	Common
4	Phase
5	Control closing
6	Control opening
7	Opening indicator (suggestion)
8	Closing indicator (suggestion)
9	Auxiliary switch closing
10	Auxiliary switch closing
11	Auxiliary switch opening
12	Auxiliary switch opening



# ELECTRICAL ACTUATORS TYPES N/A/NAX

## INSTALLATION AND MAINTENANCE MANUAL

Wiring for voltage 24V 50Hz (other types)



1	Do not use
2	Do not use
3	Common
4	Not used
5	Not used
6	Surcharge indicator (suggestion)
7	Surcharge indicator (suggestion)
8	Closing indicator (suggestion)
9	Opening indicator (suggestion)
10	Control opening
11	Control closing
12	Heating resistance
13	Auxiliary closing
14	Auxiliary closing
15	Auxiliary opening
16	Auxiliary opening