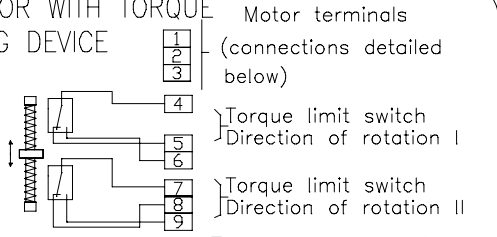




Wiring diagrams **ST Range**

ACTUATOR WITH TORQUE LIMITING DEVICE

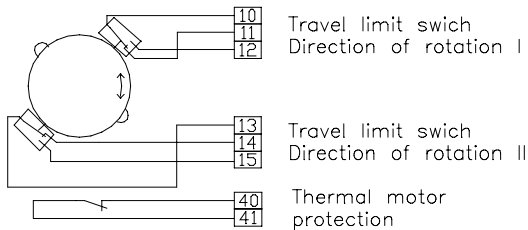


FUNCTION OF SWITCHES

- Direction of rotation
 I) anticlockwise (normally opening)
 II) Clockwise (normally closing)

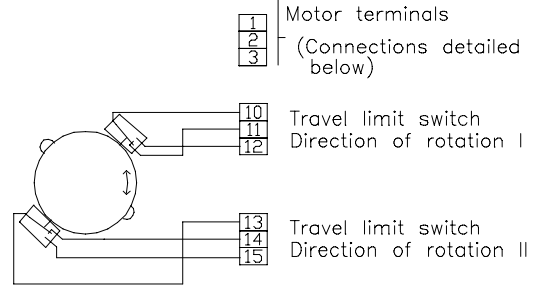
*Torque switches give short duration contact except on ST & SRA6.2 (maintained contact)

*Travel limit switches give maintained contact



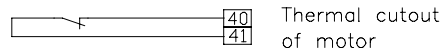
Direction of rotation seen on opposite side of fixing flange of actuator

ACTUATOR WITHOUT TORQUE LIMITING DEVICE



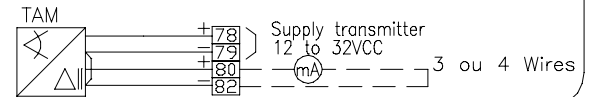
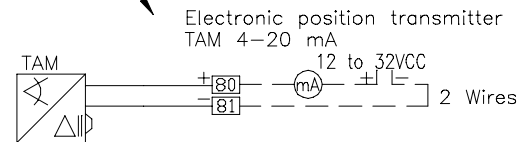
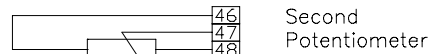
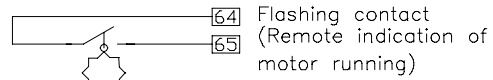
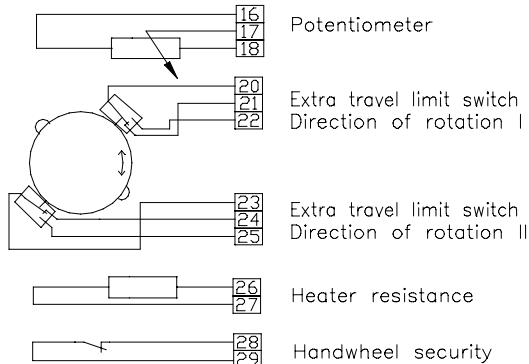
FUNCTION OF SWITCHES

- Direction of rotation
 I) anticlockwise (normally opening)
 II) Clockwise (Normally closing)

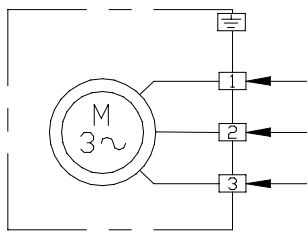


Direction of rotation seen on opposite side of fixing flange of actuator

OPTIONAL ACCESSORIES

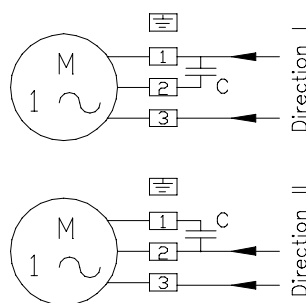


MOTOR THREE PHASE



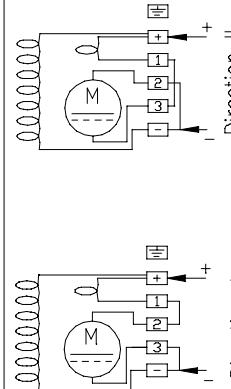
NOTA: 3Ph phase direct=DirectionII

SINGLE PHASE



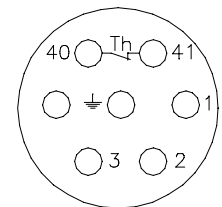
NOTA : The capacitor is enclosed in types OA & supplied separately for other types of actuators

D.C.



EXPLOSIONPROOF EEXed

Th: Thermal cutout



Independant terminal box of motor

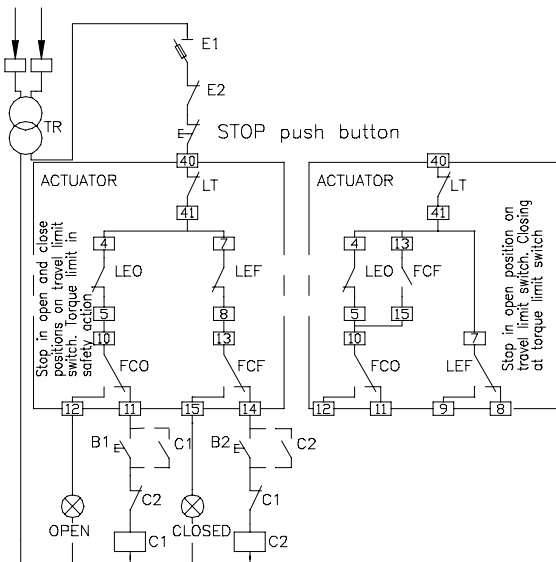
Note: The capacitor is supplied separately in case of single phase

EXAMPLE OF WIRING DIAGRAM FOR STANDARD ACTUATOR

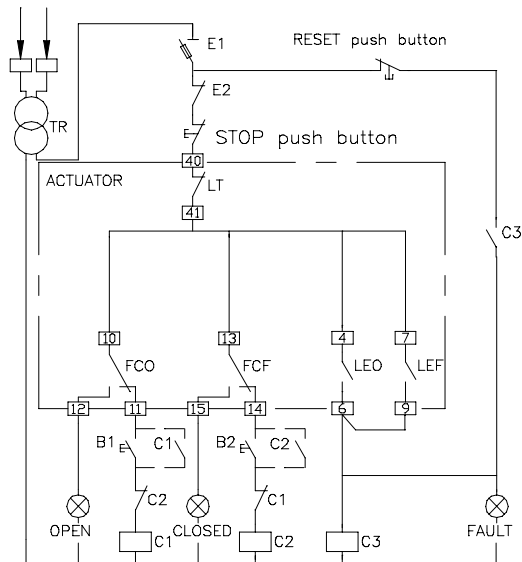
This diagram illustrates Actuator in intermediate position

CONTROL CIRCUIT

ACTUATOR WITH MAINTAINED TORQUE LIMIT SWITCH (ST & SRA.2)



ACTUATOR WITH SHORT DURATION TORQUE LIMIT SWITCH

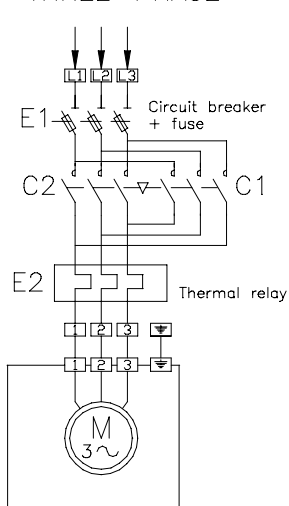


Stop in open and closed position on travel limit switch, Torque limit switch in safety action with manual reset
Wiring diagram for closing on torque limit switch on request

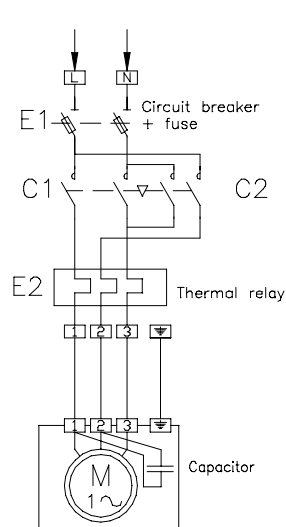
Dotted ligne : for short duration type signal (not maintained)

SUPPLY CIRCUIT

THREE-PHASE



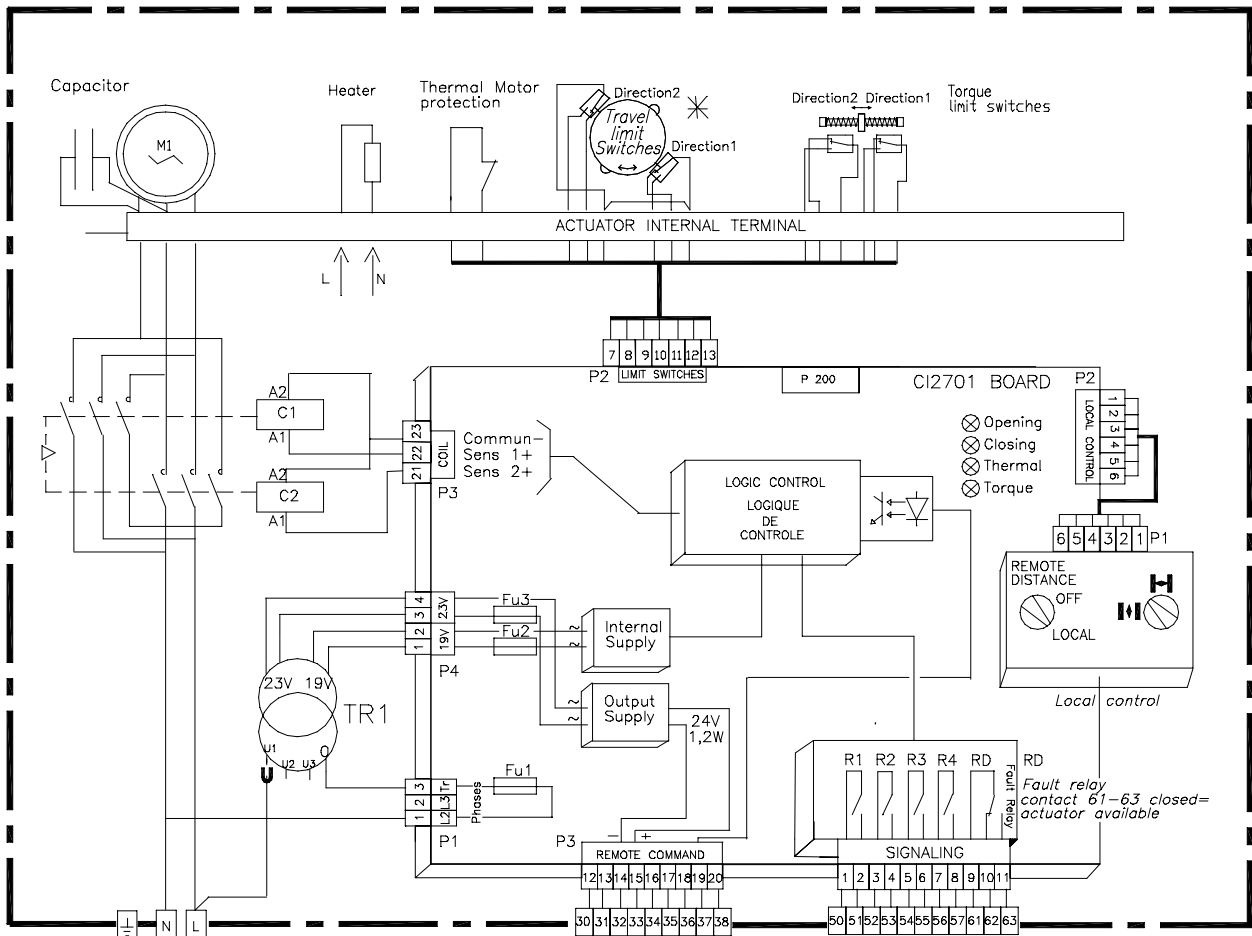
SINGLE-PHASE



Legend

- E1 : Circuit breaker with fuse
- E2 : Thermal relay
- C1 : Contactor OPENING
- C2 : Contactor CLOSING
- C3 : Contactor FAULT
- FCO : Travel limit switch OPENING
- FCF : Travel limit switch CLOSING
- LEO : Torque limit switch OPENING
- LEF : Torque limit switch CLOSING
- LT : Thermal cut-out in motor
- TR : Transformer
- B1 : OPENING push button
- B2 : CLOSING push button

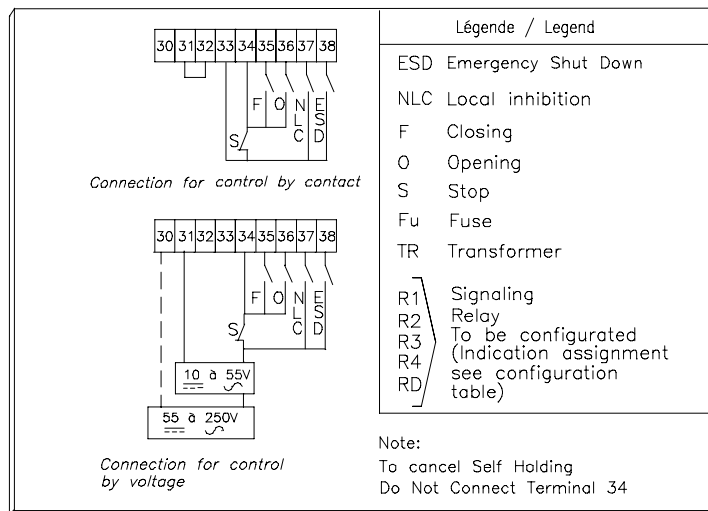
S20200/00



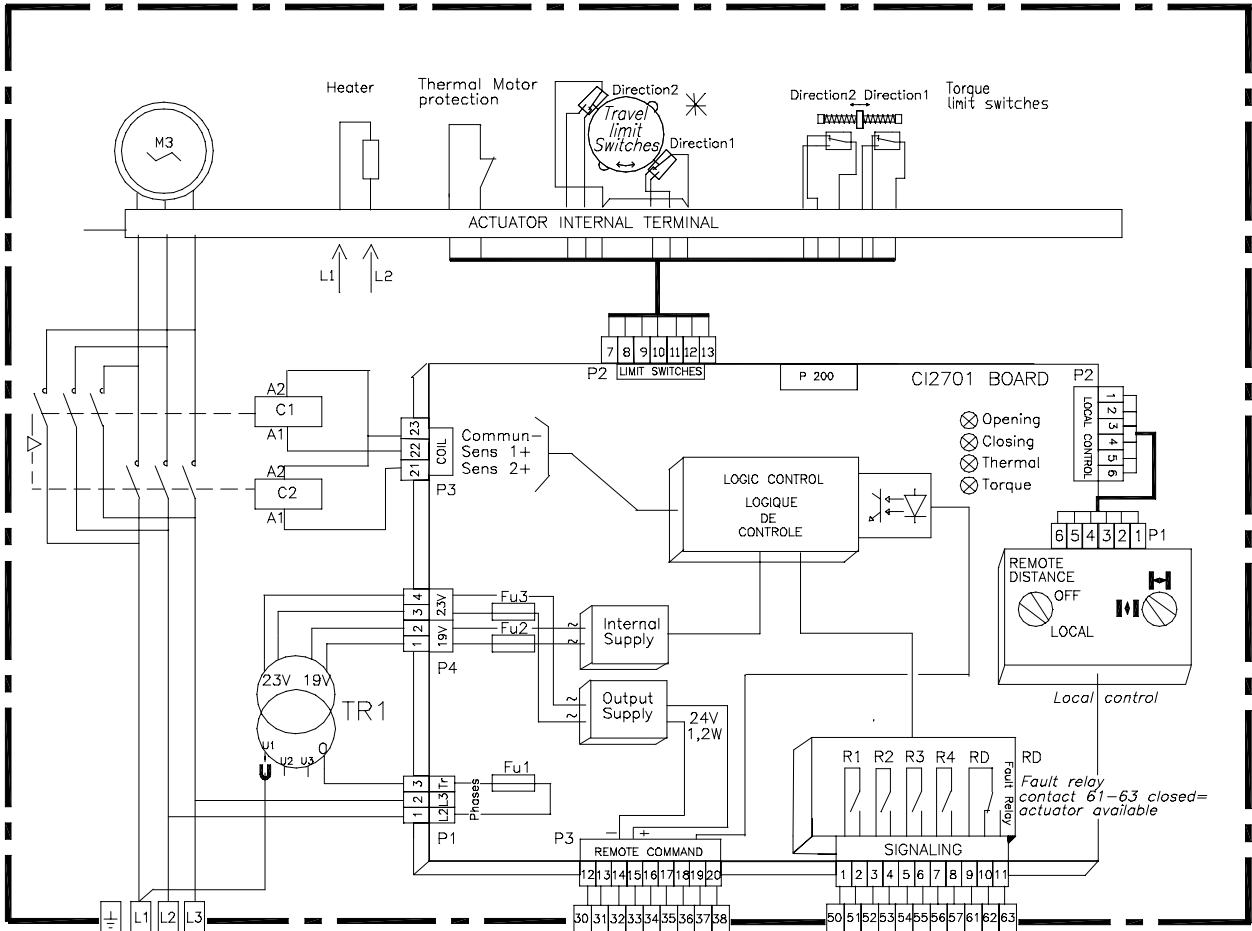
SINGLE PHASE SUPPLY

✱

configuration	7A	7B
Direction1	Opening	Closing
Direction2	Closing	Opening



S20100/00

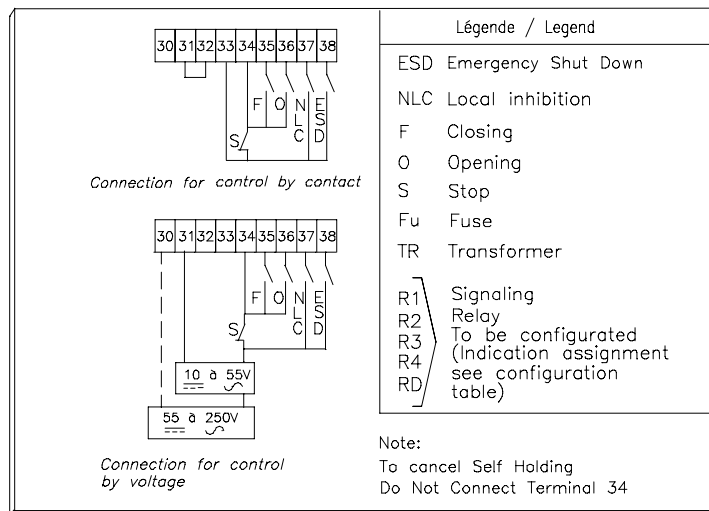


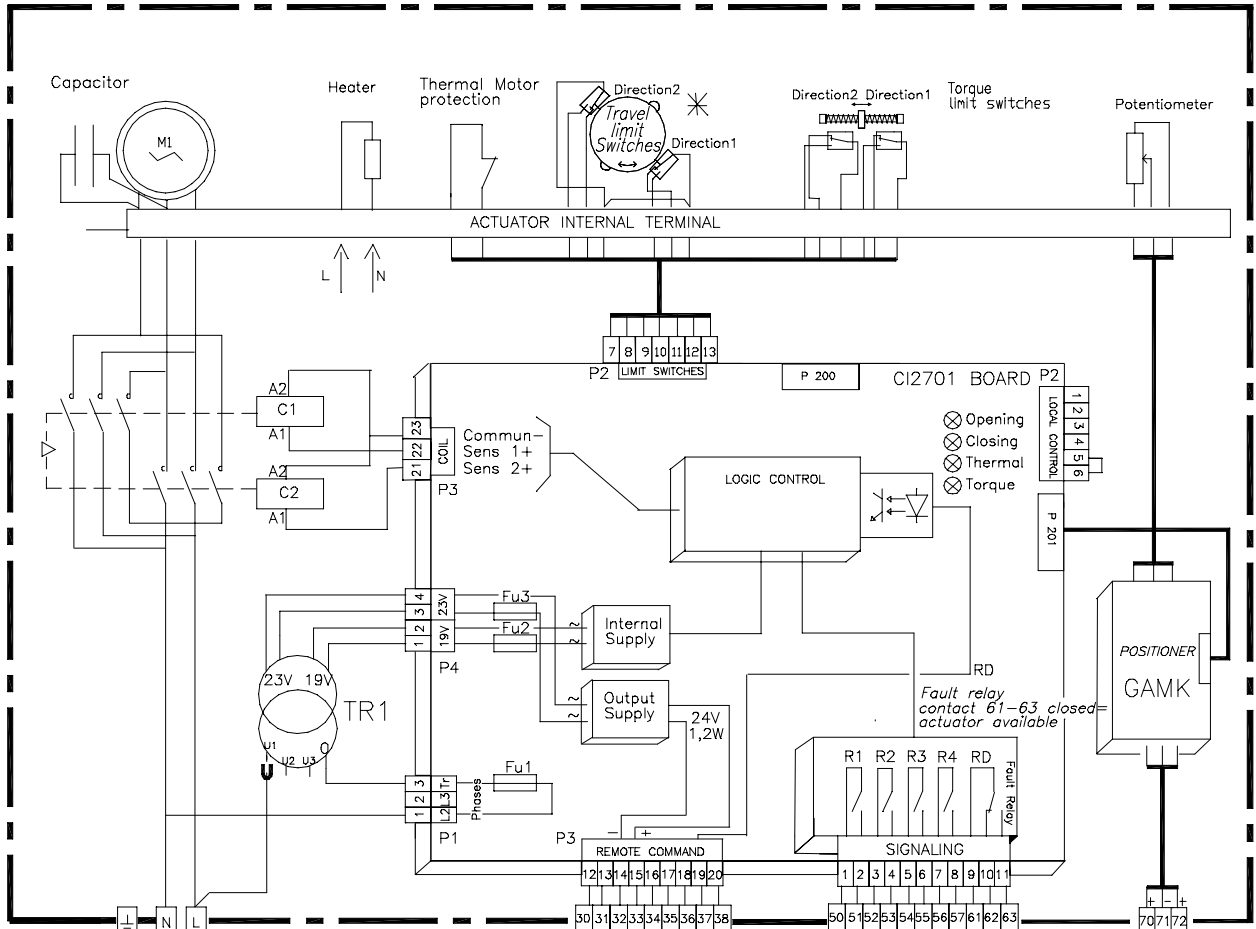
THREE PHASE SUPPLY

The Order in Phase is not important.
If one Phase is missing, the Actuator will not start and gives a signal (fault Relay).

*

configuration	7A	7B
Direction1	Opening	Closing
Direction2	Closing	Opening





SINGLE PHASE SUPPLY



configuration	7A	7B
Direction1	Opening	Closing
Direction2	Closing	Opening

Connection for control by contact

Connection for control by voltage

Légende / Legend

- ESD Emergency Shut Down
- OC Closed contact = ON-OFF control
- F Closing
- O Opening
- S Stop
- Fu Fuse
- TR Transformer
- R1 Signaling
- R2 Relay
- R3 To be configurated (Indication assignment see configuration table)
- R4
- RD

Note:
To cancel Self Holding
Do Not Connect Terminal 34

Input Signal

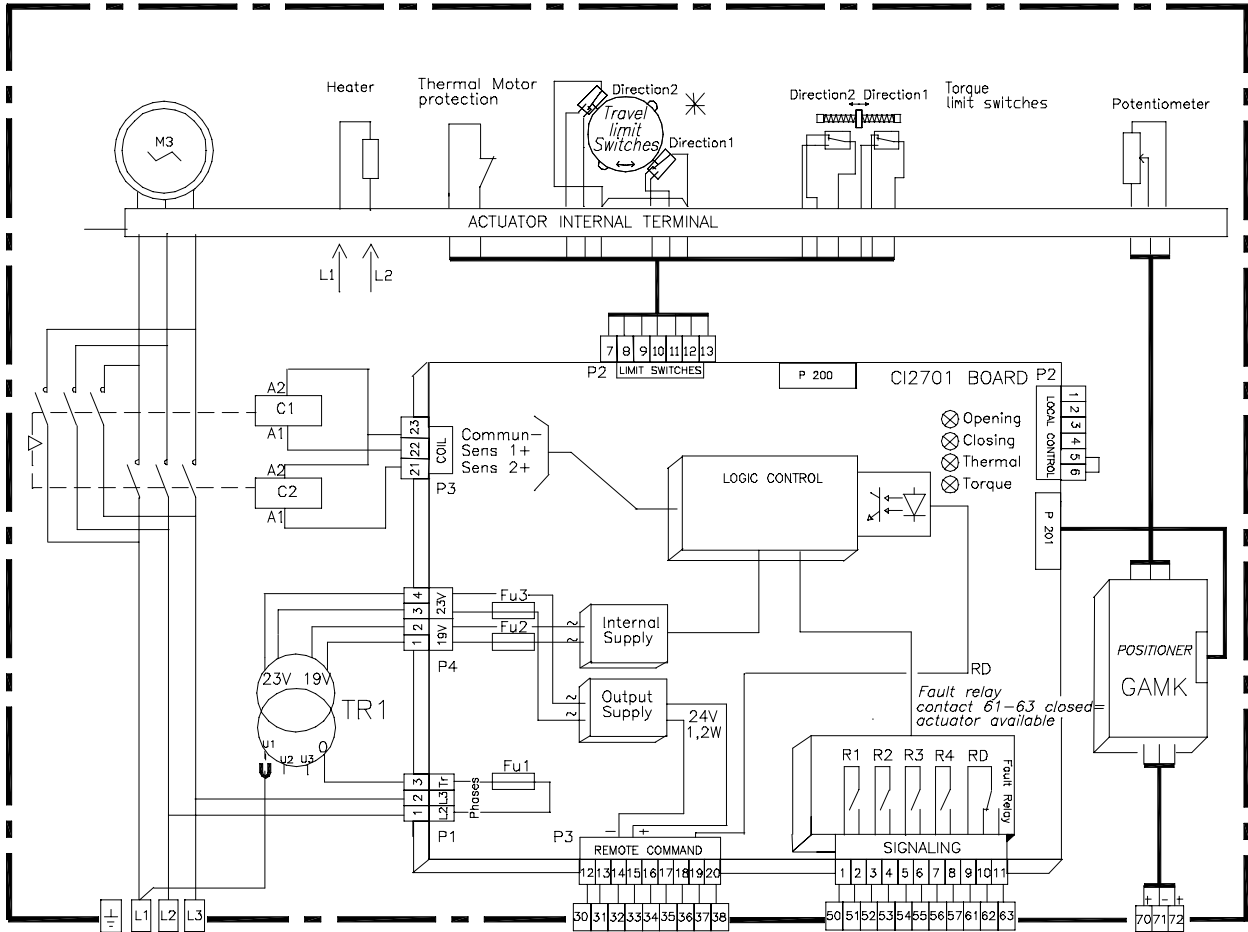
Output Signal

4-20mA (260 ohms)
0-10V (10 kohms)

4-20mA (300 ohms)
max)

Connecting for Positioner

S25100/00



THREE PHASE SUPPLY

The Order in Phase is not important.
If one Phase is missing, the Actuator will not start and gives a signal (fault Relay).

✱

configuration	7A	7B
Direction1	Opening	Closing
Direction2	Closing	Opening

Connection for control by contact

Connection for control by voltage

Légende / Legend

- ESD Emergency Shut Down
- OC Closed contact = ON-OFF control
- F Closing
- O Opening
- S Stop
- Fu Fuse
- TR Transformer
- R1 Signaling Relay
- R2 To be configured
- R3 (Indication assignment see configuration table)
- R4
- RD Fault Relay

Note:
To cancel Self Holding
Do Not Connect Terminal 34

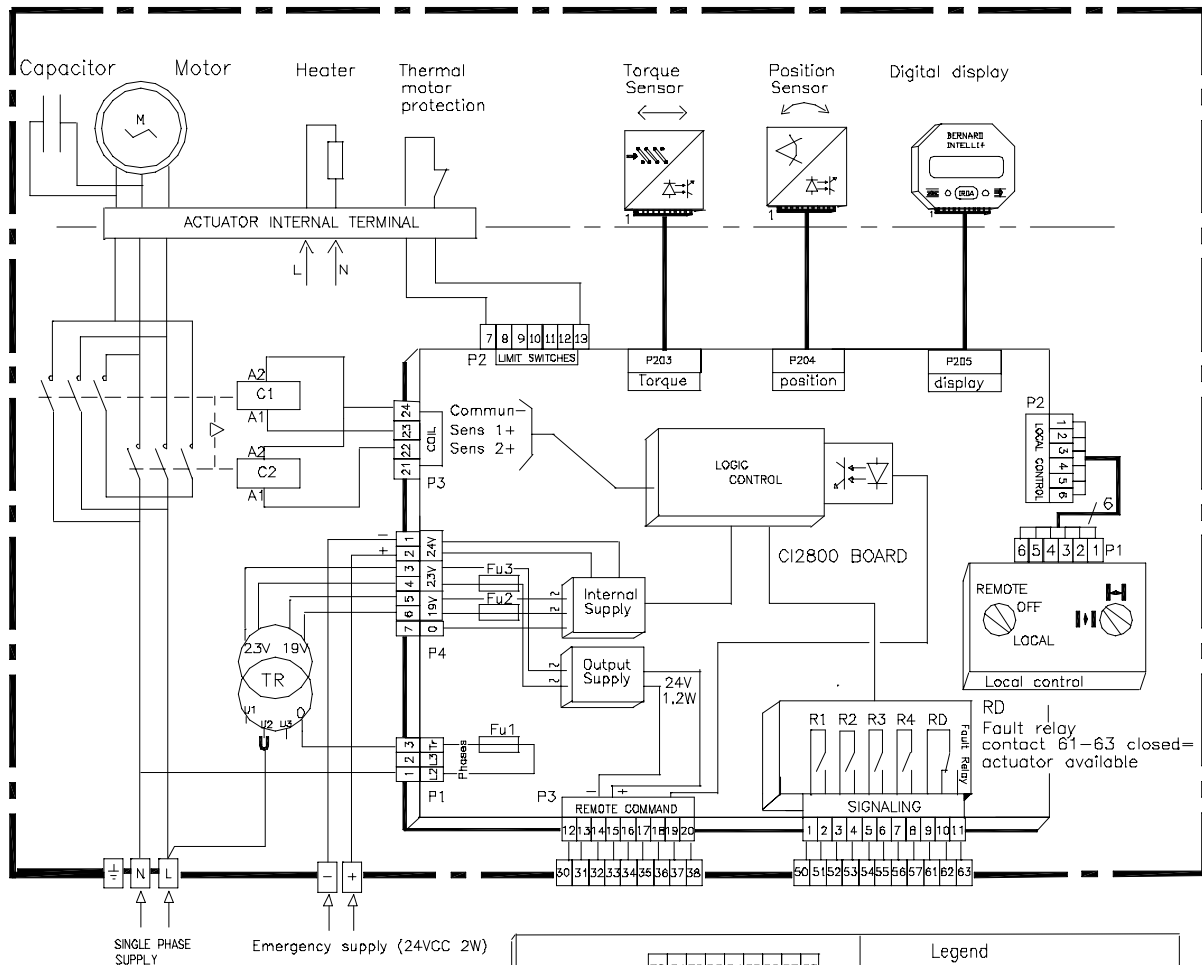
Input Signal

Output Signal

4-20mA
0-20mA
(260 ohms)
0-10V
(10 kohms)

4-20mA
0-20mA
(300 ohms)
max)

Connecting for Positioner



SINGLE PHASE SUPPLY Emergency supply (24VDC 2W)

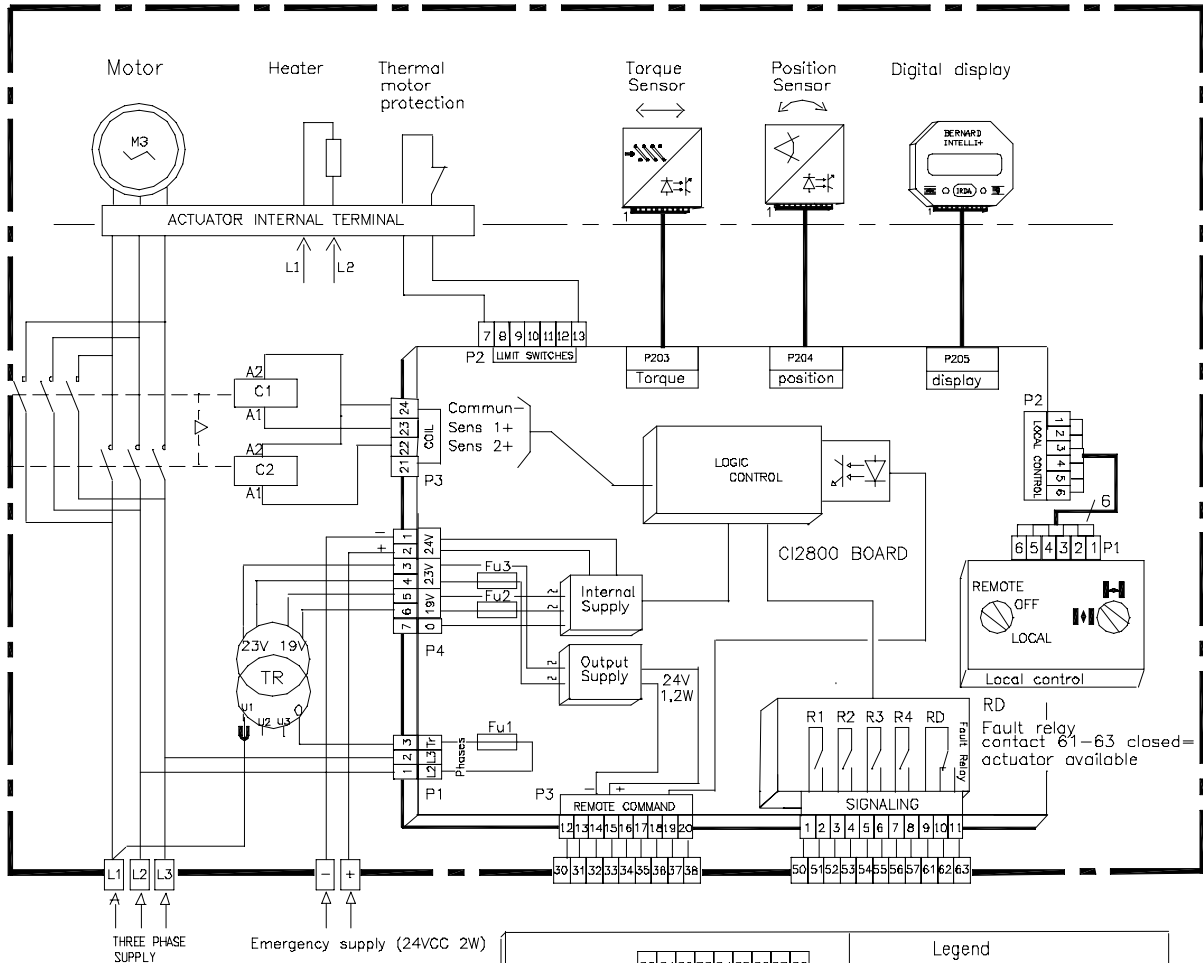
Connection for control by contact

Connection for control by voltage

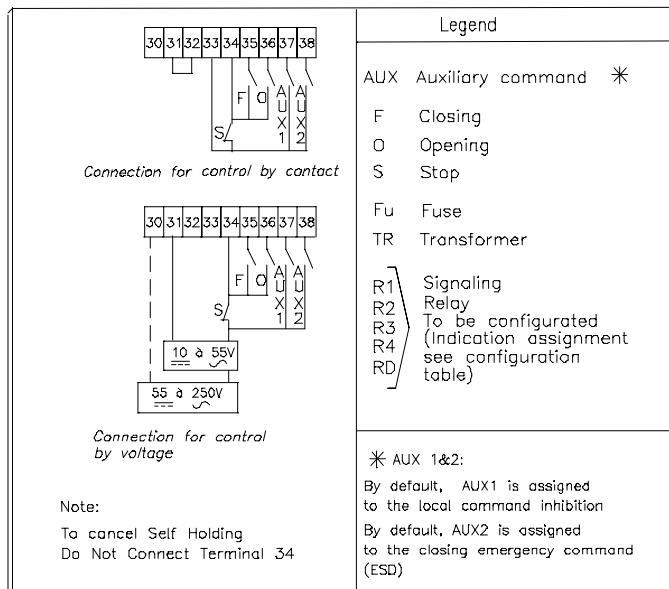
Note:
To cancel Self Holding
Do Not Connect Terminal 34

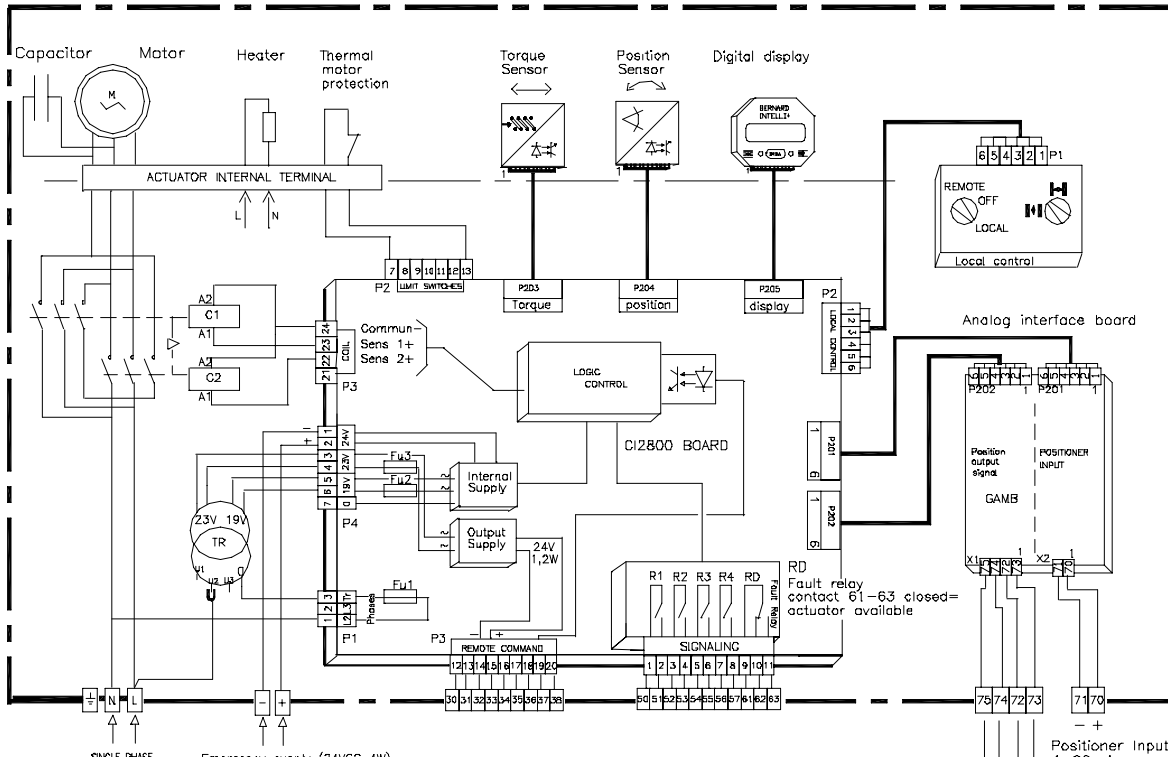
Legend	
AUX	Auxiliary command *
F	Closing
O	Opening
S	Stop
Fu	Fuse
TR	Transformer
R1	Signaling Relay To be configured (Indication assignment see configuration table)
R2	
R3	
R4	
RD	Fault relay contact 61-63 closed= actuator available

* AUX 1&2:
By default, AUX1 is assigned to the local command inhibition
By default, AUX2 is assigned to the closing emergency command (ESD)



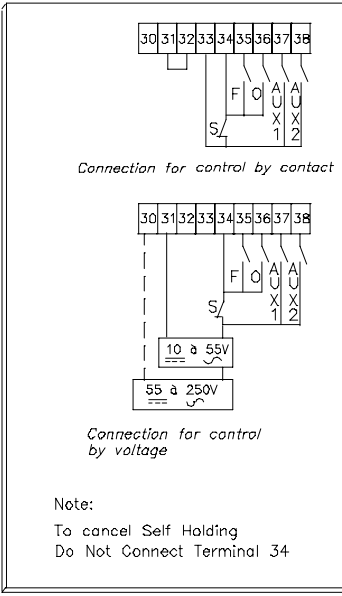
The order in the phase is not important
If one phase is missing, the actuator will not start
and gives a signal (Fault relay)





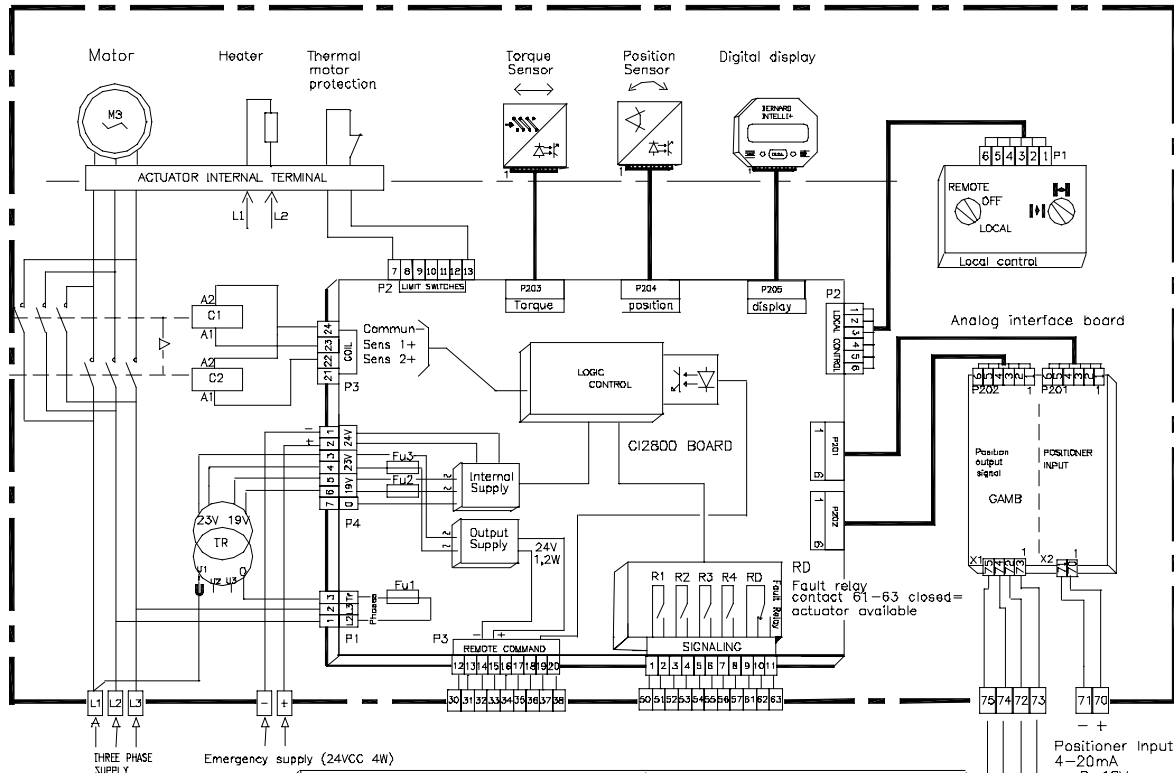
SINGLE PHASE SUPPLY

Emergency supply (24VDC 4W)

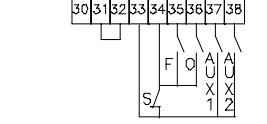


Legend	
AUX	Auxiliary command *
F	Closing
O	Opening
S	Stop
Fu	Fuse
TR	Transformer
R1	Signaling Relay To be configured (Indication assignment see configuration table)
R2	
R3	
R4	
RD	Fault relay contact 61-63 closed= actuator available
* AUX 1&2: By default, AUX1 is assigned to the selection Aut/On-Off Aut. Positioner On-Off: Open/Close command By default, AUX2 is assigned to the closing emergency command (ESD)	

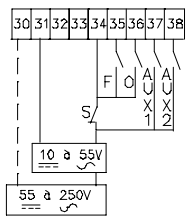
- Positioner Input 4-20mA or 0-10V
- Commun (-)
- Position output signal 0/4-20mA max 300Ω
- Position output signal 0/2-10V min 1kΩ
- Torque output signal 4-20mA max 300Ω



The order in the phase is not important
If one phase is missing, the actuator will not start
and gives a signal (Fault relay)



Connection for control by contact



Connection for control by voltage

Note:
To cancel Self Holding
Do Not Connect Terminal 34

Legend

- AUX Auxiliary command *
- F Closing
- O Opening
- S Stop
- Fu Fuse
- TR Transformer
- R1 Signaling Relay
- R2 To be configured
- R3 (Indication assignment see configuration table)
- R4
- RD

* AUX 1&2:

By default, AUX1 is assigned to the selection Aut/On-Off
Aut: Positioner
On-Off: Open/Close command
By default, AUX2 is assigned to the closing emergency command (ESD)

- Positioner Input 4-20mA or 0-10V
- Commun (-)
- Position output signal 0/4-20mA max 300Ω
- Position output signal 0/2-10V min 1kΩ
- Torque output signal 4-20mA max 300Ω