



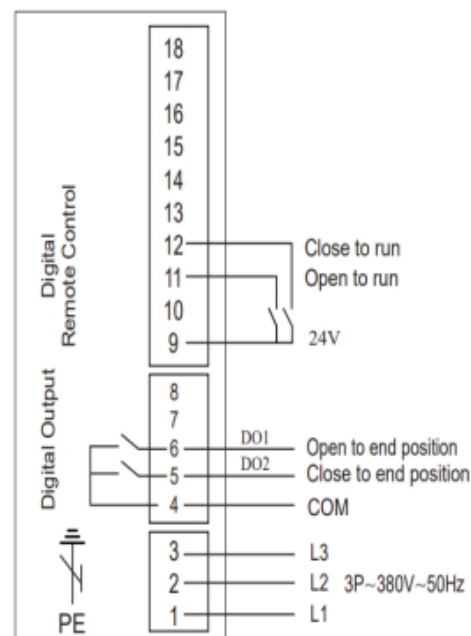
Electric Wiring Diagram

EME/EOE Intelligent Electric Actuator

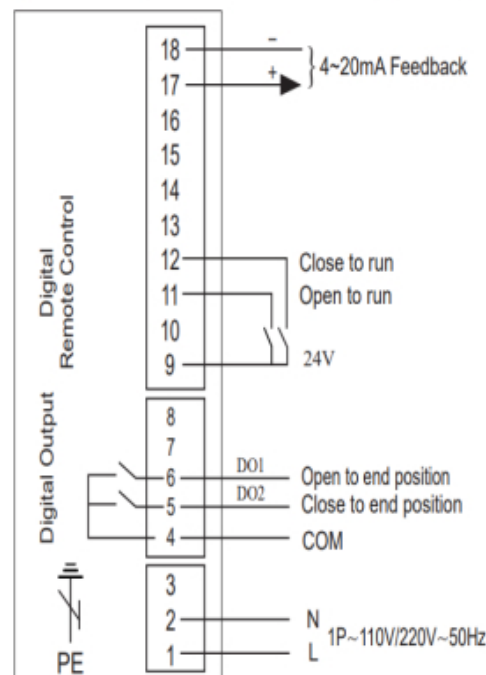
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Basic Electrical Wiring

3-phase AC, 380V (Basic Type)



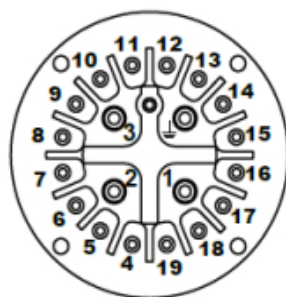
1-phase AC, 110V/220V Basic (on-off)



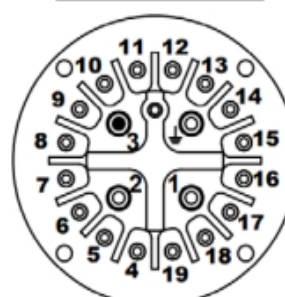
Customers must carefully read the following content and follow the steps before use!

Customer debugging process (in initial state)

1. Do not connect the actuator to the valve first;
2. Connect the main power line, control signal line, and feedback signal line;
3. Turn on the power and use remote control signal to operate in the open direction. Generally, counterclockwise operation is defaulted to the open direction however if the three-phase main power line is connected in the wrong direction, the given open signal will now run the actuator in the closed direction. At this time, stop the operation, switch off main power and swap any two of 3 phases of the main power line. Test it to switch on main power and send an open command, when the operation reaches the limit position, the fully open signal will be triggered and the display at the front of the actuator will show 100%
4. Now send close command, when the actuator reaches the close limit position, the fully closed signal is triggered, the display at the front of the actuator will now show 0%;
5. Connect the actuator to the valve in the fully closed state (end users can use it directly after completing this step, non end users should continue with the step);
6. If it is necessary to disconnect the actuator from the valve, please run the valve to the specified position and then remove the actuator from the valve. Then, stop the actuator in the middle position and remove the signal and power lines;
7. Repeat from step 2/ 3 once during the final on-site installation before normal operation.



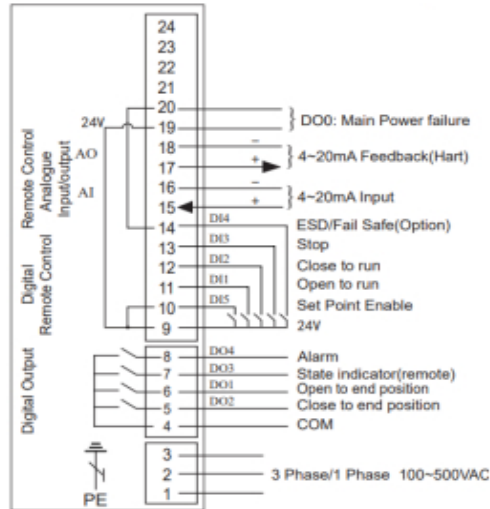
Explosion proof or
IP68 double seal type



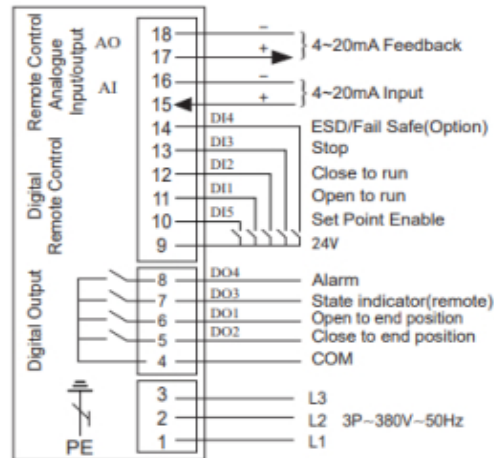
Explosion proof or
IP68 double seal type

Intelligent Type Electrical Wiring

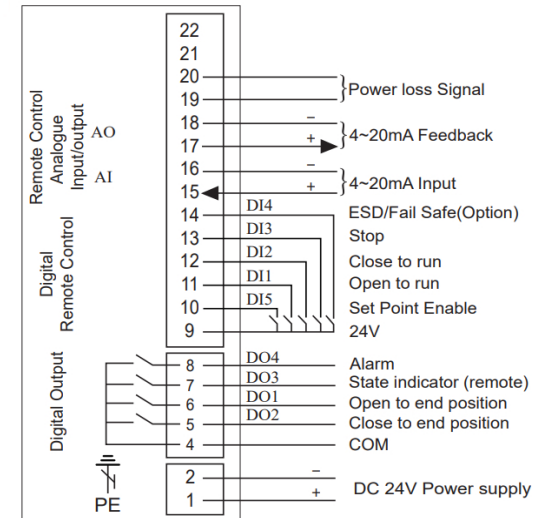
3 Phase/1 Phase 100~500VAC (Modulating duty)



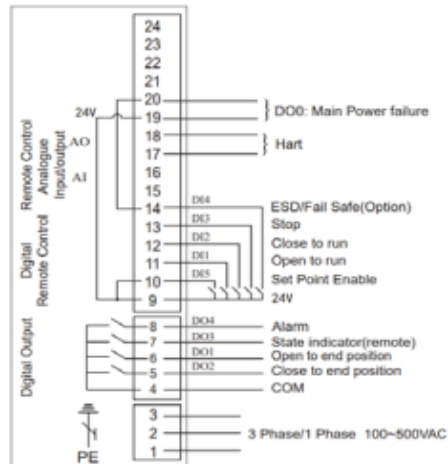
3-phase AC,380V(Modulating duty)



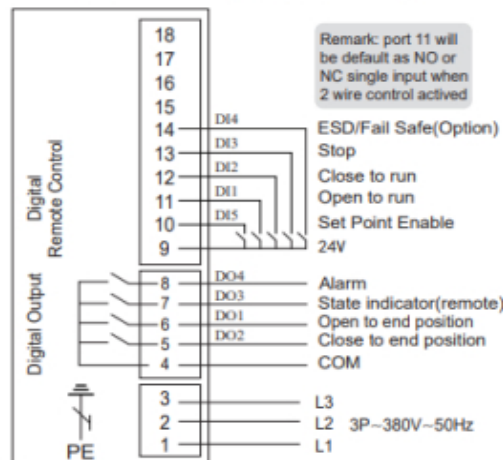
DC,24V(Modulating duty)



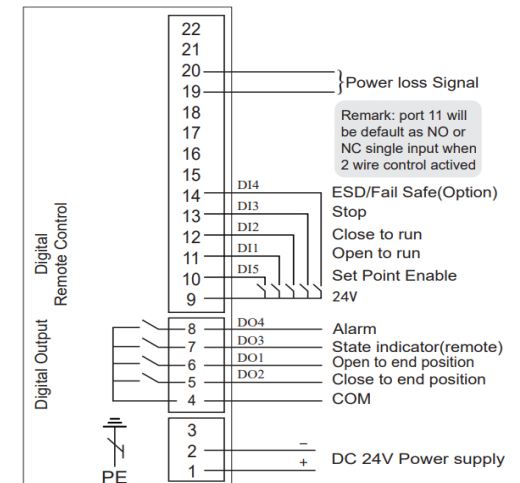
3 Phase/1 Phase 100~500VAC (On-off)



3-phase AC,380V(on-off)

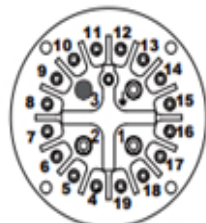
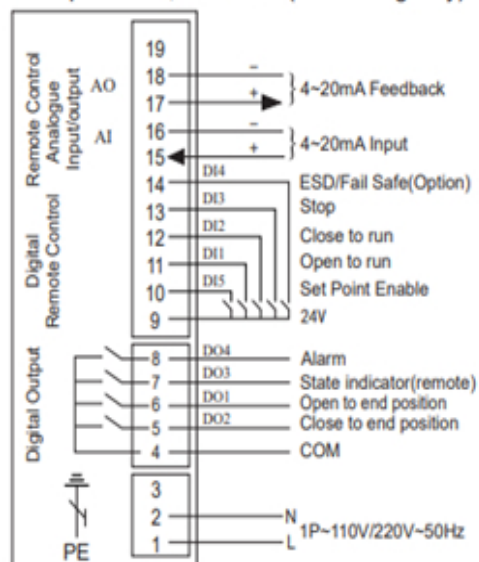


DC 24V(on-off)



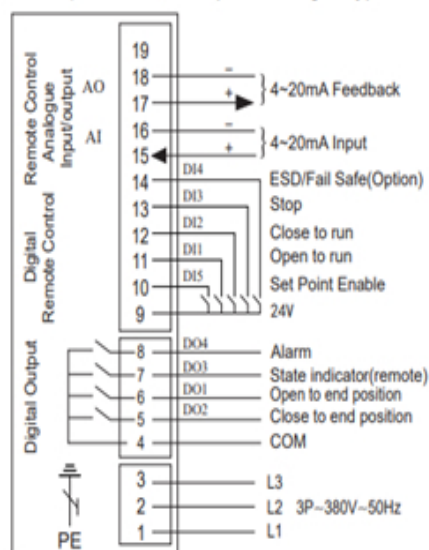
Explosion Proof or IP68 Double Seal Electrical Wiring

1-phase AC, 110V/220V (Modulating duty)



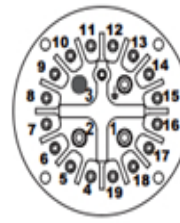
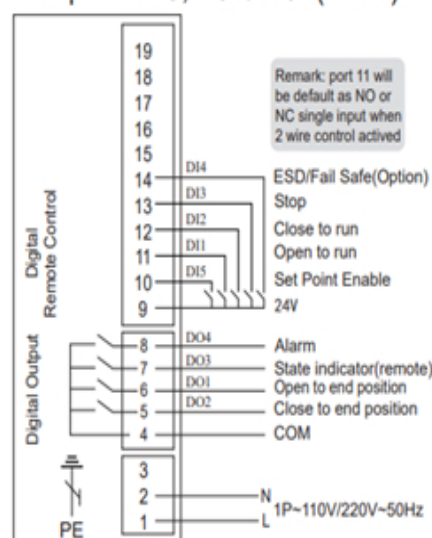
Explosion proof
or
IP68 double seal type

3-phase AC, 380V (Modulating duty)



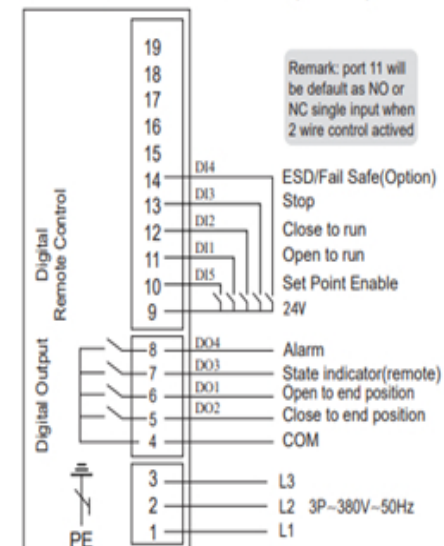
Explosion proof
or
IP68 double seal type

1-phase AC, 110V/220V (on-off)



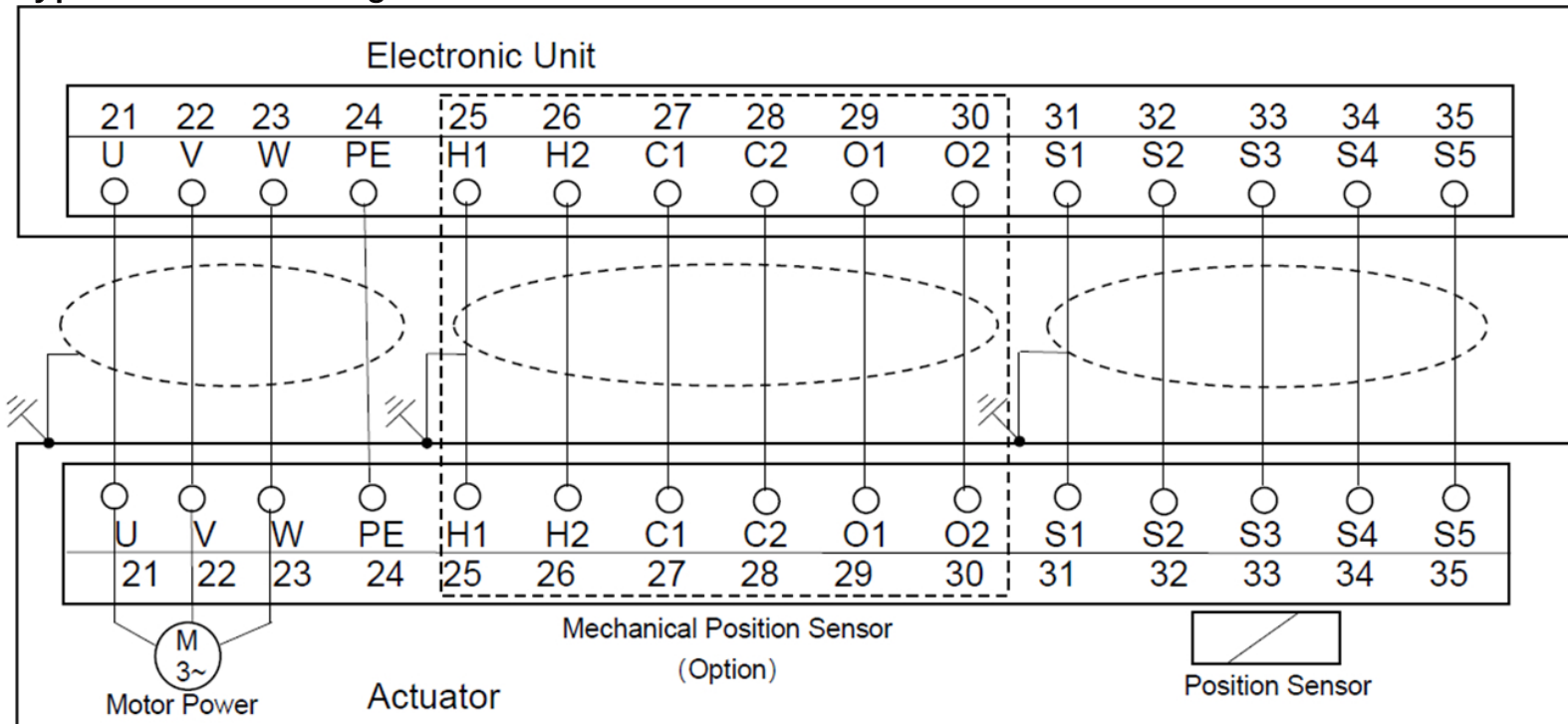
Explosion proof
or
IP68 double seal type

3-phase AC, 380V (on-off)



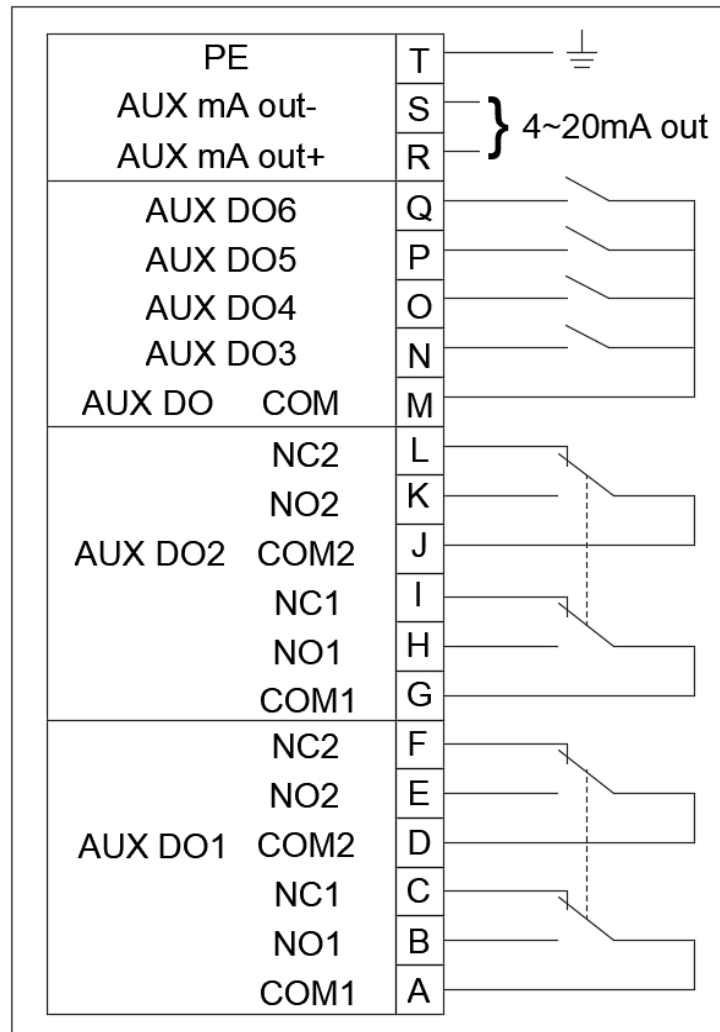
Explosion proof
or
IP68 double seal type

Split-type Electrical Wiring



1. The sensor signal cable shall be 14-core cable with shield; The sectional area of the line shall be 0.5mm², and the length of the line shall not exceed 5m;
2. The motor connection line adopts the cable with a sectional area of 0.5mm²,
3. Pay carefully attention to the wiring between the electronic unit and the actuator to avoid misfunctioning;
4. Cable conforming to the national standard IEC 60227 and IEC 60245 shall be preferred.
5. In high temperature environment, please use high temperature cable, incoming device(connector), cable protection shell, etc. that meet the requirements;
6. This wiring diagram is only between the electronic unit and the actuator. For control wiring, please refer to the wiring diagram of conventional products on page 05.

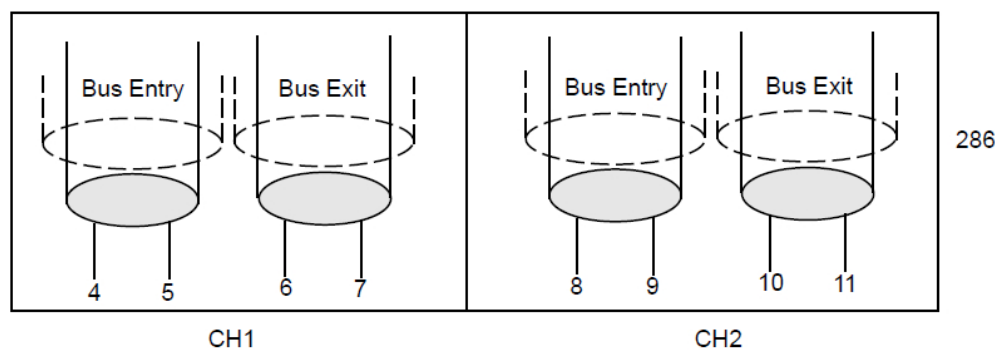
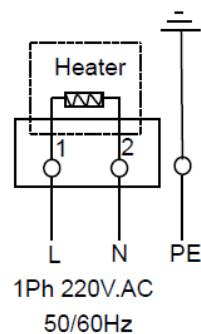
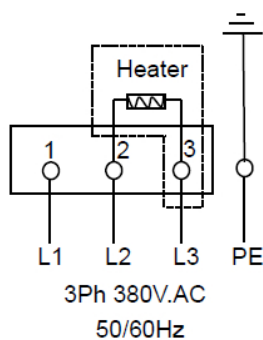
Wiring Diagrams of Additional Channel



	Default	Min	Max
AUX DO6	Value 1 To End	FullOpenIndi	HandleSignal
AUX DO5	Value 2 To End	FullOpenIndi	HandleSignal
AUX DO4	Local Control	FullOpenIndi	HandleSignal
AUX DO3	ESDRunHold	FullOpenIndi	HandleSignal
AUX DO2	PSTRunHold	FullOpenIndi	HandleSignal
AUX DO1	BluetoothC	FullOpenIndi	HandleSignal

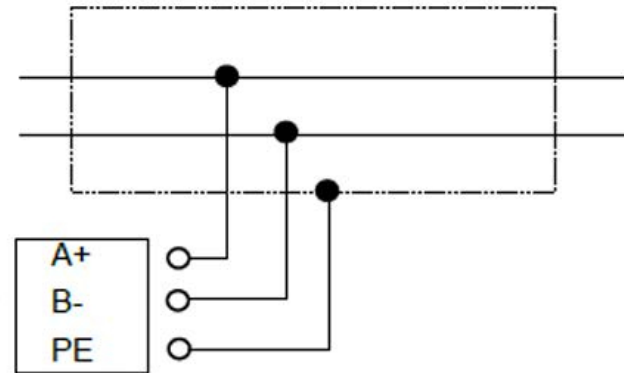
Optional			
A	OPEN_END	K	RUN_HOLD_SIGNAL
B	CLOSE_END	L	RUN_PULSE_SIGNAL
C	REMOTE_CONTROL	M	OPEN_PULSE_END_HOLD
D	FAULT_MESSAGE	N	CLOES_PULSE_END_HOLD
E	ANALOG_IN_LOSS	O	OPEN_RUN_HOLD
F	OPEN_OVER_TORQUE	P	CLOSE_RUN_HOLD
G	CLOSE_OVER_TORQUE	Q	ESD_RUN_HOLD
H	VALUE1_TO_END	R	PST_RUN_HOLD
I	VALUE2_TO_END	S	BLUETOOTH_CONNECTED
J	LOCAL_CONTROL	T	HANDLE_OPERATION_OUT

Profibus DP Wiring Diagram



Ontrac electric actuators can optionally support

- Profibus- DP fieldbus protocol with additional code of "286". A Profibus network segment can connect up to 32 Ontrac electric actuators. The transmission speed of Ontrac electric actuators can be 9.6kbps ~ 1500kbps
- Foundation fieldbus and is Foundation ITK inter-operability certified. It is fully compliant with IEC61158-2 standard.
- Modbus



Foundation Fieldbus Wiring Diagram

