



Technical data

Model	Duty mode	Power Supply Type	Self-lock	Motor type	Force	Fastest Full traveling time	Control Unit	Rated Power	Rated Current	Weight
EME400	Modulating	3PH380VAC	Yes	S4	295 ft-lb	58s	Control A or B	60W	0.3A	44lb
EOE400	On/Off	3PH380VAC	Yes	S2	295 ft-lb	29s	Control A or B	90W	0.59A	44lb

Model	Duty mode	Power Supply Type	Self-lock	Motor type	Force	Fastest Full traveling time	Control Unit	Rated Power	Rated Current	Weight
EME400	Modulating	1PH220VAC	Yes	S4	295 ft-lb	58s	Control A or B	60W	0.48A	44lb
EOE400	On/Off	1PH220VAC	Yes	S2	295 ft-lb	29s	Control A or B	90W	0.6A	44lb

Model	Duty mode	Power Supply Type	Self-lock	Motor type	Force	Fastest Full traveling time	Control Unit	Rated Power	Rated Current	Weight
EME400	Modulating	24VDC / Wide voltage up to 500VAC	Yes	S4	295 ft-lb	43s	Control B	150W	10A	44lb
EOE400	On/Off	24VDC/Wid e voltage up to 500VAC	Yes	S2	295 ft-lb	43s	Control B	150W	10A	44lb

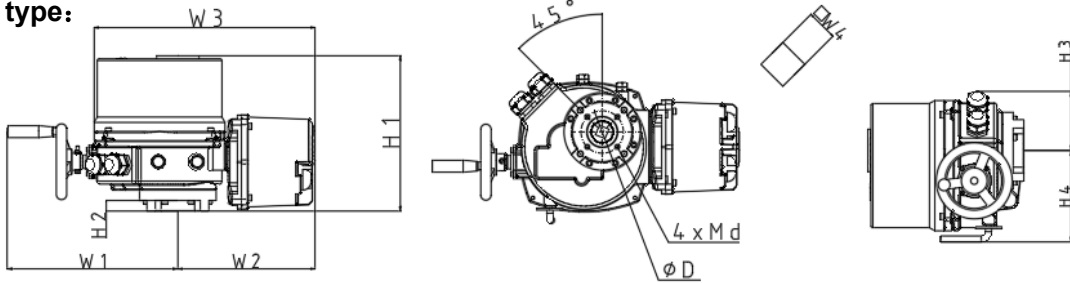


Mechanical Dimensions-Integrated type (Unit: inch)

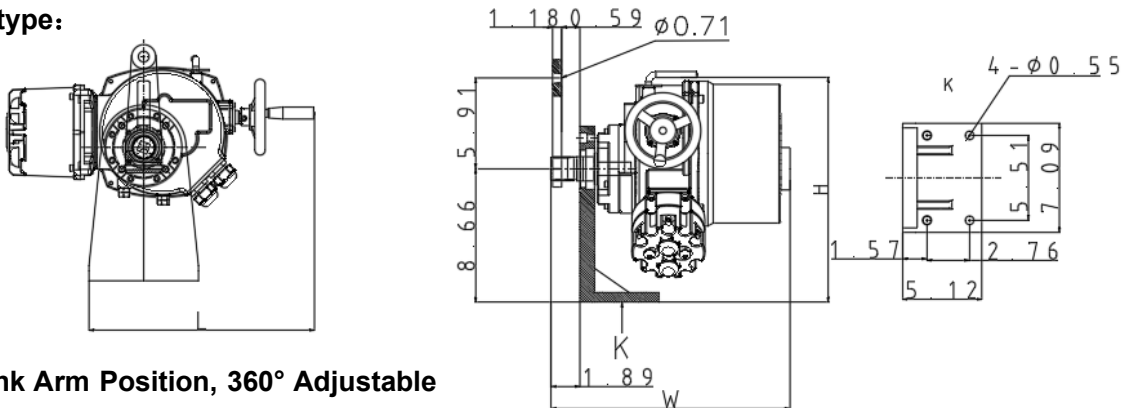
Mode	Direct Connection													Base and Level				
	W1	W2	W3	W4	H1	H2	H3	H4	Φ D		Md		Flange	Weig ht lb	L	W	H	Weight lb
									ENISO	MSS	ENISO	MSS						
									5211	SP-101	5211	SP-101						
Unit: inch														Unit: inch				
EME400	11.46	9.37	15.24	0.87x0.87	11.30	2.17	4.21	6.46	Φ4.02 Φ4.92	Φ4.00 Φ4.95	M10 M12	3/8-16 1/2-13	FA10 (FA12)	44	15	14.37	15.12	53
EOE400	11.46	9.37	15.24	0.87x0.87	11.30	2.17	4.21	6.46	Φ4.02 Φ4.92	Φ4.00 Φ4.95	M10 M12	3/8-16 1/2-13	FA10 (FA12)	44	-	-	-	-

Note: "-" means Not available

Direct connection type:



Base and level type:



**Crank Arm Position, 360° Adjustable
Bracket Type**

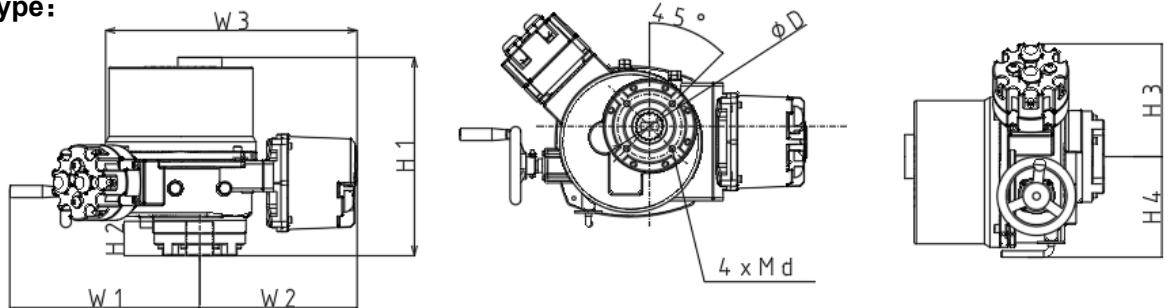


EXPLOSIVE Type Mechanical Dimensions-Integrated type (Unit: inch)

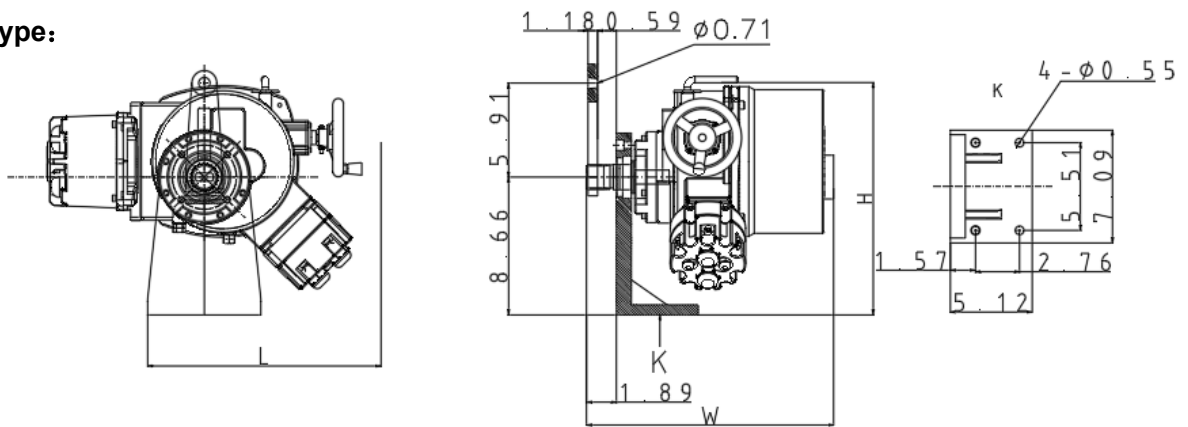
Mode	Direct Connection													Base and Level				
	W1	W2	W3	W4	H1	H2	H3	H4	Φ D		Md		Flange	Weig ht lb	L	W	H	Weight lb
									ENISO	MSS	ENISO	MSS						
									5211	SP-101	5211	SP-101						
Unit: inch														Unit: inch				
EME400	11.46	9.37	15.24	0.87x0.87	11.30	2.17	4.21	6.46	Φ4.02 Φ4.92	Φ4.00 Φ4.95	M10 M12	3/8-16 1/2-13	FA10 (FA12)	44	15	14.37	15.12	53
EOE400	11.46	9.37	15.24	0.87x0.87	11.30	2.17	4.21	6.46	Φ4.02 Φ4.92	Φ4.00 Φ4.95	M10 M12	3/8-16 1/2-13	FA10 (FA12)	44	-	-	-	-

Note: "-" means Not available

Direct connection type:



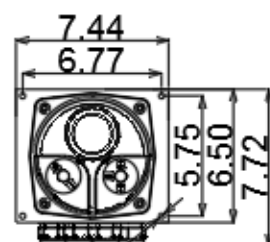
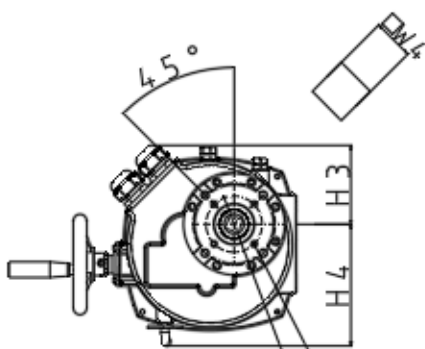
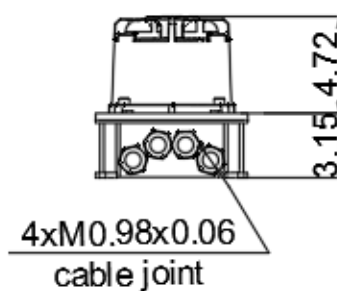
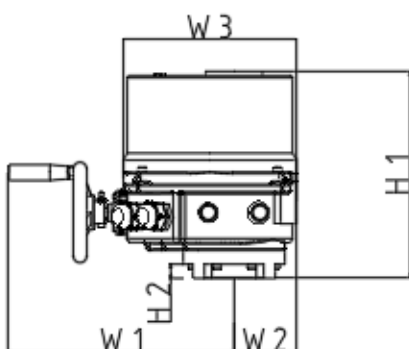
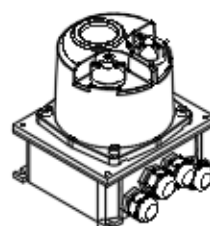
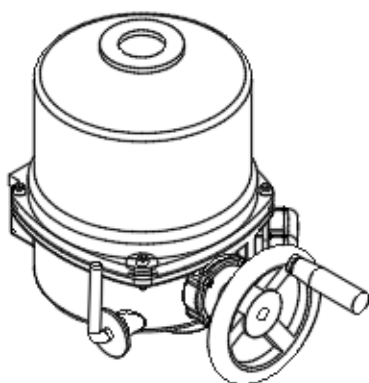
Base and level type:





Mechanical Dimensions-Split type (Unit: inch)

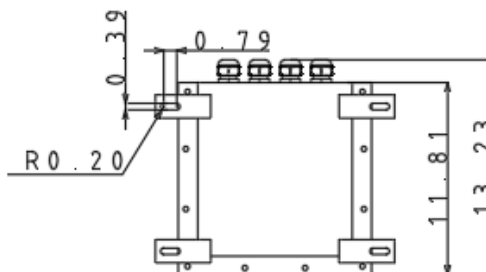
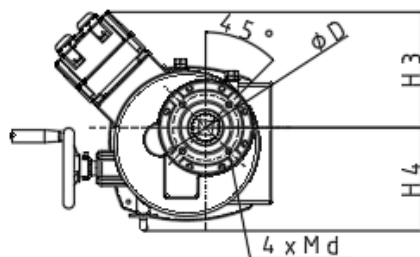
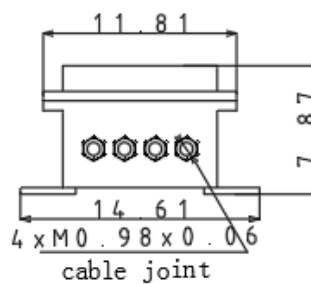
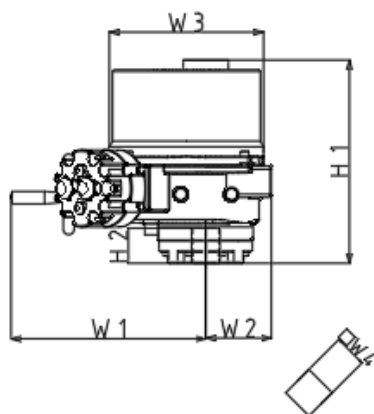
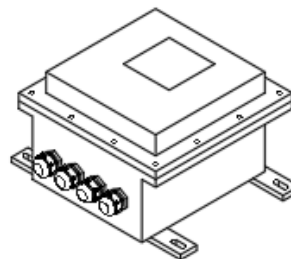
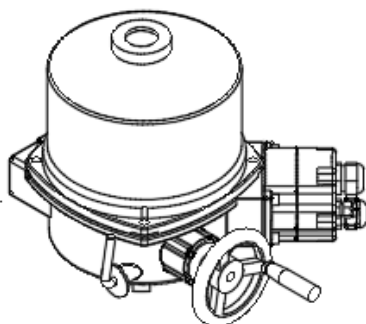
Model	W1	W2	W3	W4	H1	H2	H3	H4	Φ D		Md		Flange
	Unit : inch								ENISO 5211	MSS SP-101	ENISO 5211	MSS SP-101	
EME400	11.46	9.37	15.24	0.87x0.87	11.30	2.17	4.21	6.46	Φ 4.02 Φ 4.92	Φ 4.00 Φ 4.95	M10 M12	3/8-16 1/2-13	FA10 (F12)
EOE400	11.46	9.37	15.24	0.87x0.87	11.30	2.17	4.21	6.46	Φ 4.02 Φ 4.92	Φ 4.00 Φ 4.95	M10 M12	3/8-16 1/2-13	FA10 (F12)





EXPLOSIVE Type Mechanical Dimensions-Split type (Unit: inch)

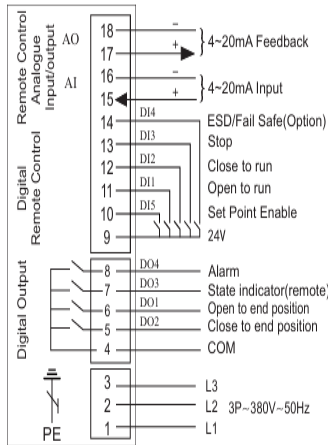
Model	W1	W2	W3	W4	H1	H2	H3	H4	Φ D		Md		Flange
	Unit : inch								ENISO 5211	MSS SP-101	ENISO 5211	MSS SP-101	
EME400	11.62	3.54	13.35	0.87x0.87	11.30	2.17	4.21	6.46	Φ 4.02 Φ 4.92	Φ 4.00 Φ 4.95	M10 M12	3/8-16 1/2-13	FA10 (F12)
EOE400	11.62	3.54	13.35	0.87x0.87	11.30	2.17	4.21	6.46	Φ 4.02 Φ 4.92	Φ 4.00 Φ 4.95	M10 M12	3/8-16 1/2-13	FA10 (F12)



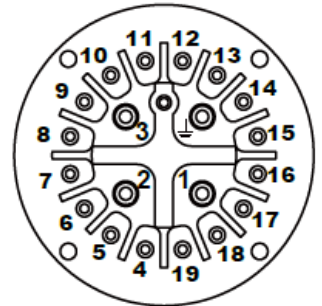
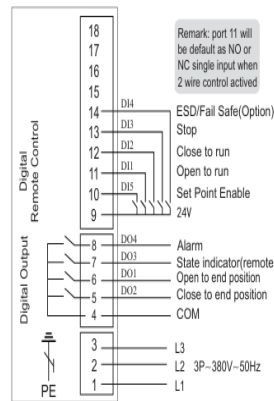


INTELLIGENT TYPE WIRING DIAGRAMS

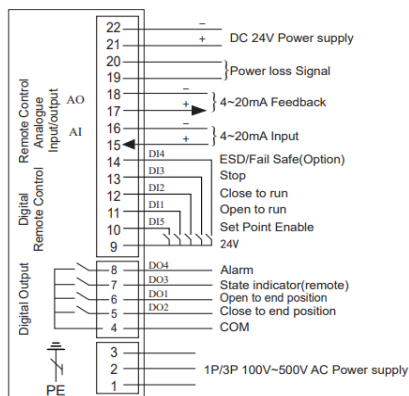
3-phase AC, 380V (Modulating)



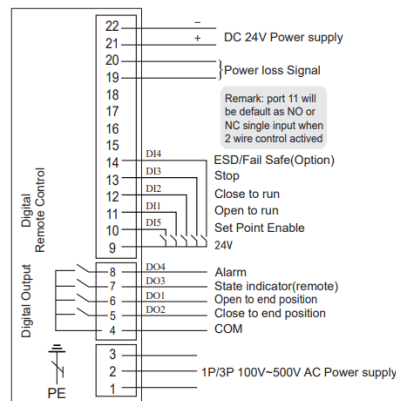
3-phase AC, 380V (on-off)



1/3-phase AC 100-500V((Modulating)

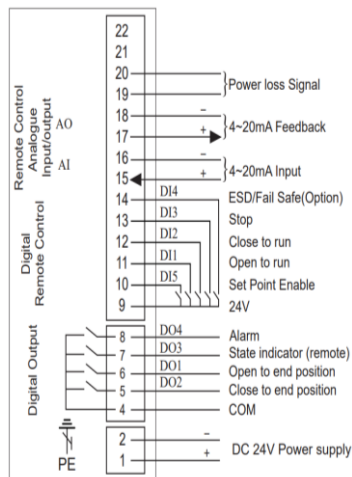


1/3-phase AC 100-500V (on-off)

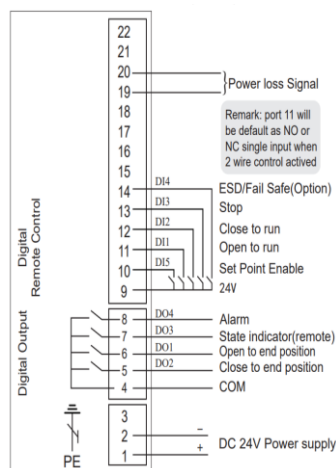


Explosion-proof
IP68 double seal

DC,24V(Modulating)

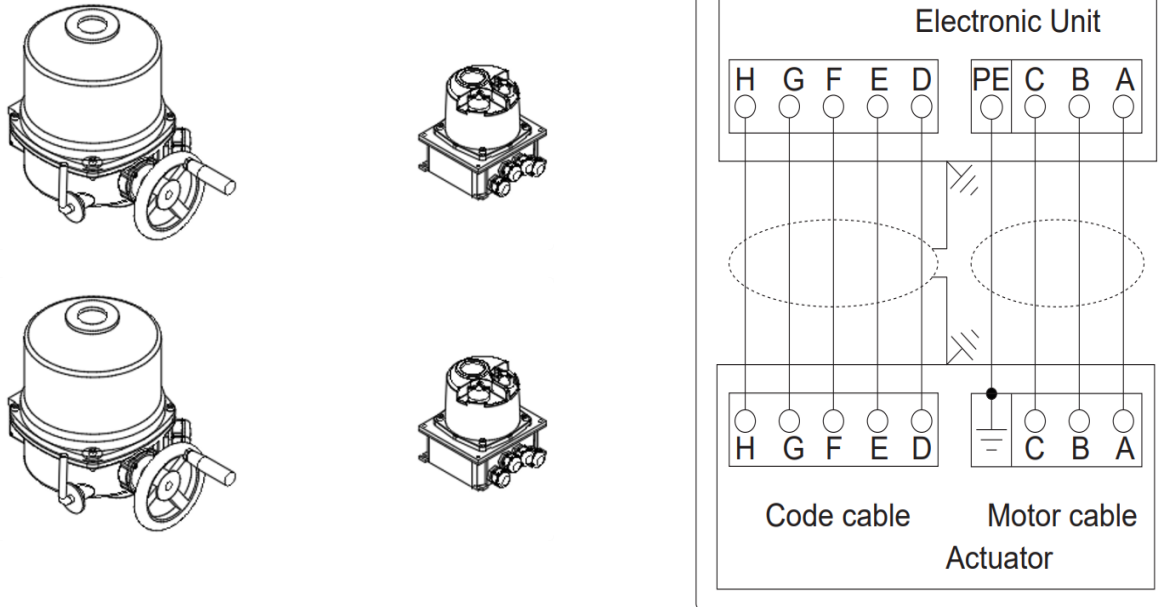


DC,24V(on-off)





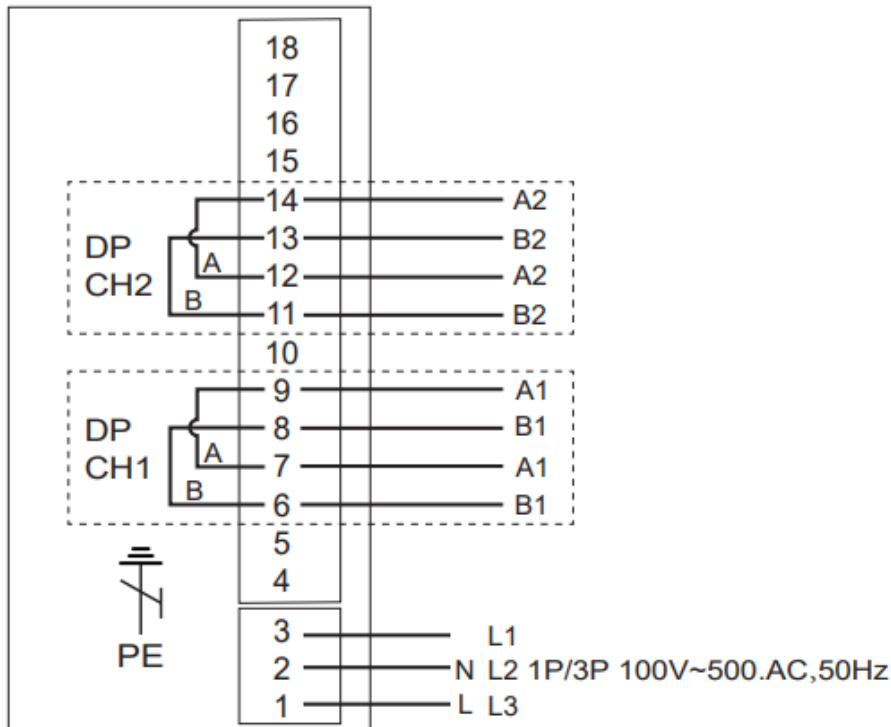
Split-type Electrical Wiring



1. The sensor signal cable shall be 14-core cable with shield; The sectional area of the line shall be 0.5mm^2 , and the length of the line shall not exceed 10m; depending on the site condition
2. The motor connection line adopts the cable with a sectional area of 0.5mm^2 ,
3. Pay carefully attention to the wiring between the electronic unit and the actuator to avoid malfunctioning;
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 in Easytrac operational manual.



Profibus DP Wiring Diagram 286 board



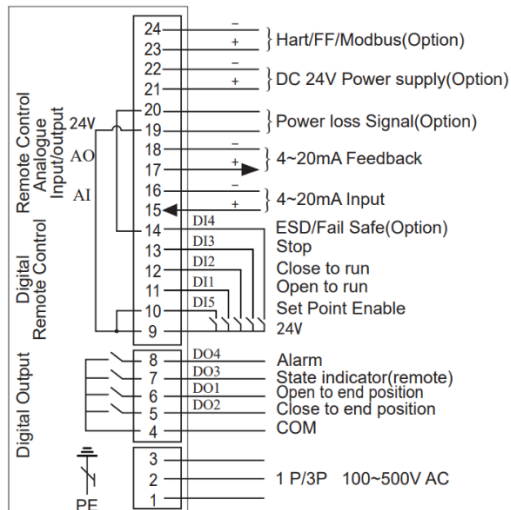
Ontrac electric actuators can optionally support

- 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 RTU protocol communications at a baud rate up to 38.4kbits/s. Our factory default speed is 9.6kbits/s giving a 1.5km maximum distance between nodes. We use a master / slave query response polling cycle with CRC (Cyclic Redundancy Check).
- HART Communication Protocol (Highway Addressable Remote Transducer) connectivity. HART allows use of conventional 4 – 20 mA wiring.

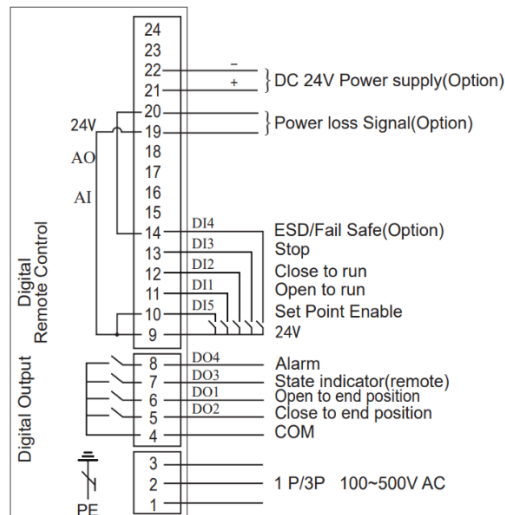


Modbus/Hart Wiring Diagram 288 board

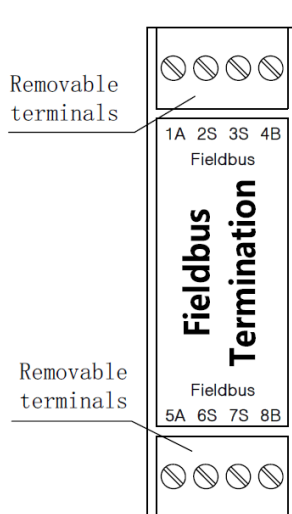
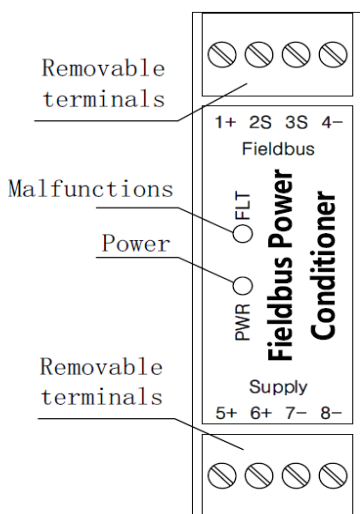
1P/3P 100~500V AC(Modulating duty)



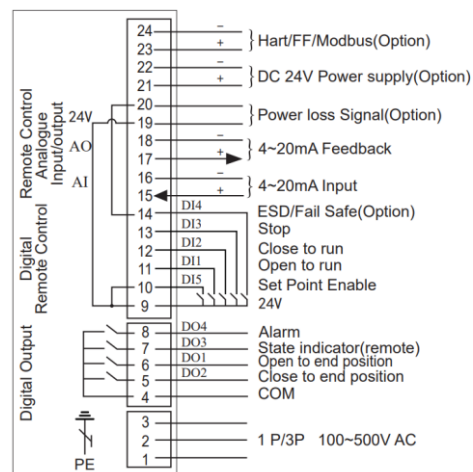
1P/3P 100~500V AC(on-off)



Foundation Fieldbus Wiring Diagram 290 board



1P/3P 100~500V AC(Modulating duty)





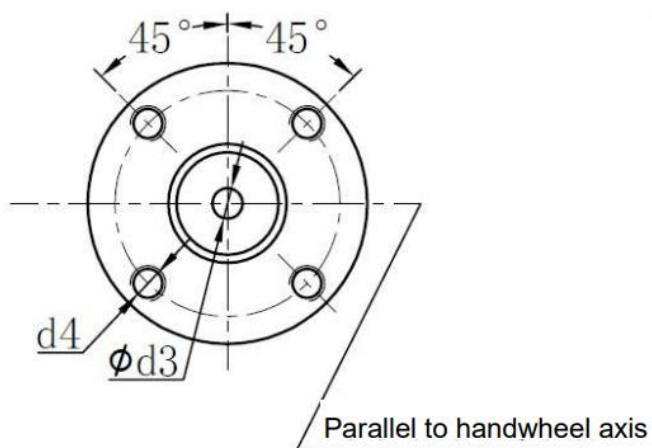
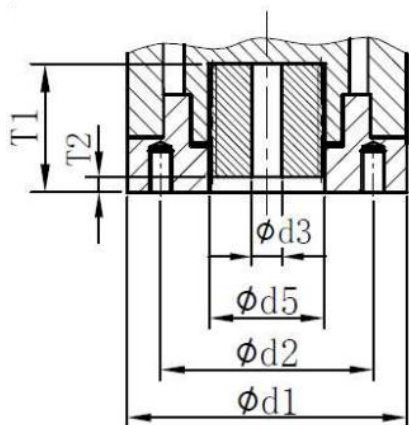
Output shaft

EME400/EOE400	Non-thrust	
Mechanical interface type	Splined bore	Splined bore
Flange size (ISO 5211)	/	FA10
Maximum square spindle diameter (inch)	/	0.87x0.87

Flange structure and valve connection size (Unit: inch)

Code Model	Flange	d1	d2		d3		d5	T1	T2	d4
			Standard size	Factory default	Factory default	Max stem Diameter (keyway)				
EME/EOE400	FA10	Ø5.71	Ø2.76	Ø4.02	Ø0.31	Ø 0.71(0.24)	Ø1.50	2.17	0.12	4-M10 deep 0.59

Note: d2 and d3 parameters can be processed according to customer requirements before delivery





Specifications

Voltage supply	3-phase: 380±5%, 50/60Hz±5% 1-phase: 110/220V±10%, 50/60Hz±5% 100-500VAC (Wide voltage Optional) 24VDC
Duty mode	On-off and Inching (EOE Type) S2-15 min Modulating, EME Type S4-25%, 1200times/hr.
Motor specification	F Class DC motor and AC motor
Internal control power supply	24 VDC
Input Signal	24 VDC (Optional for 220/110VAC) for on-off 4-20 mA (Analogue Input) for modulating Profibus-DP or MODBUS, Ethernet, Foundation Fieldbus (all optional)
Output Signal	1.) 30VDC 5A or 220/110VAC 5A (Dry contact 4 SPST) Open/close, State indicator, Alarm 2.) 4-20 mA (Analogue Output) 3.) Profibus-DP or MODBUS, Hart, Ethernet, Foundation Fieldbus (all optional),
Intermediate position	Optional
Dead zone	0.5% (0.5 ~ 15% adjustable, default is 2%)
Enclosure protection	IP67 as standard IP68 (optional)
Explosive protection	Ex db eb IIC T4 Gb (optional)
Fail safe	Battery back (optional)
Safety Integrity level (optional)	SIL2&3 Electric actuators with configurable safety functions: Stay put or Emergency shut-down (ESD) open or close on demand.
Ambient conditions	1) Temperature: -20°C to 65°C, -40°C and -60°C optional 2) Humidity: in up to 100% humidity 3) Air media: corrosive, flammable and explosive gas, optional coating
Heater	Optional
Anticondensation	Anticondensation heater included
Coating	Double layer powder coating, C5-M (ISO12944 Marine Optional)
Color	RAL9005 is standard, available colors on request
CE standard  And others	1) EN 61000-6-4: 2007, EN 61000-6-2: 2005 2) EN 61000-3-2: 2006 +A1:2009+A2: 2009, EN 61000-3-3: 2008 3) EN 60204-1: 2006+A1: 2009 4) ATEX: SCA23ATEX209X,
Cable connection	2*M25 for cable Φ10-Φ16