



Technical data

Model number	Rated torque (ft-lb)	Modulation torque (ft-lb)	Rated Power	Rated Current	Speed	Maximum travel	Stem Connection
EME400-L EOE400-L	2950	1475	15W	1A	0.4 mm/s	40 mm	M10 M12 M14 M16
EME600-L EME600-L	4425	2213	30W	1.8A	0.4 mm/s	40 mm	M10 M12 M14 M16

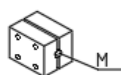
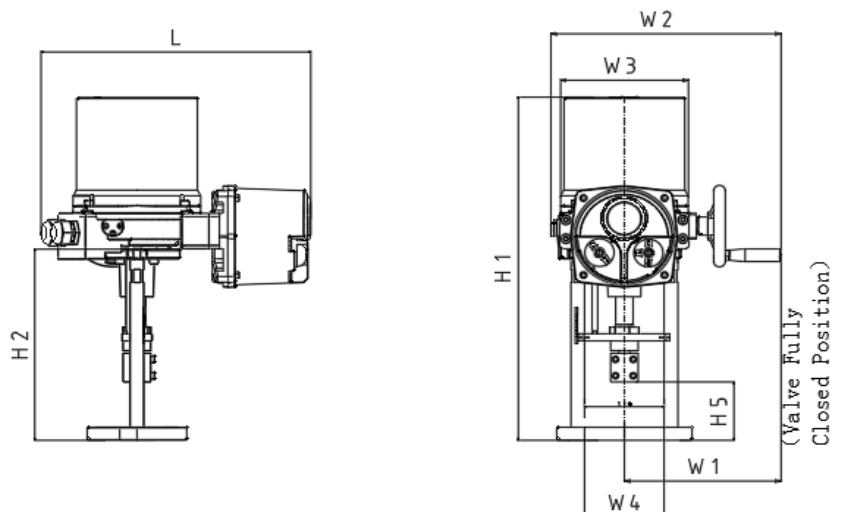
Note: 1.) It is the reference for 380VAC 50Hz 3PH power supply; 2.) Rated power/current 100% load

General Mechanical Dimensions-Integrated type (Unit: inch)

Model number	W1	W2	W3	W4	H1	H2	H3	H5*	L	Φ D		M d		Flange	Weight lb
										ENISO 5210	MSS SP-101	ENISO 5210	MSS SP-101		
Unit: inch															
EME400-L EOE400-L	8.98	13. 27	6.93	4.57	20.51	10.75	-	3.35	15.43	Φ1.97 Φ2.76	Φ2.00 Φ2.75	M6 M8	1/4-20 5/16-18	FA05 FA07	49
EME600-L EME600-L	8.98	13. 27	6.93	4.57	20.51	10.75	-	3.35	15.43	Φ1.97 Φ2.76	Φ2.00 Φ2.75	M6 M8	1/4-20 5/16-18	FA05 FA07	49

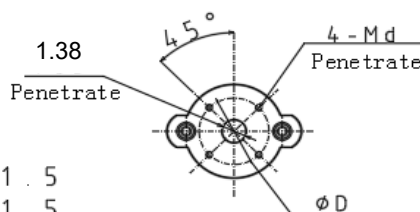
Note : * (Stem height when valve is fully closed)

EME/EOE400-L Dimensions Drawing:



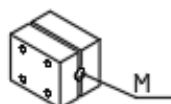
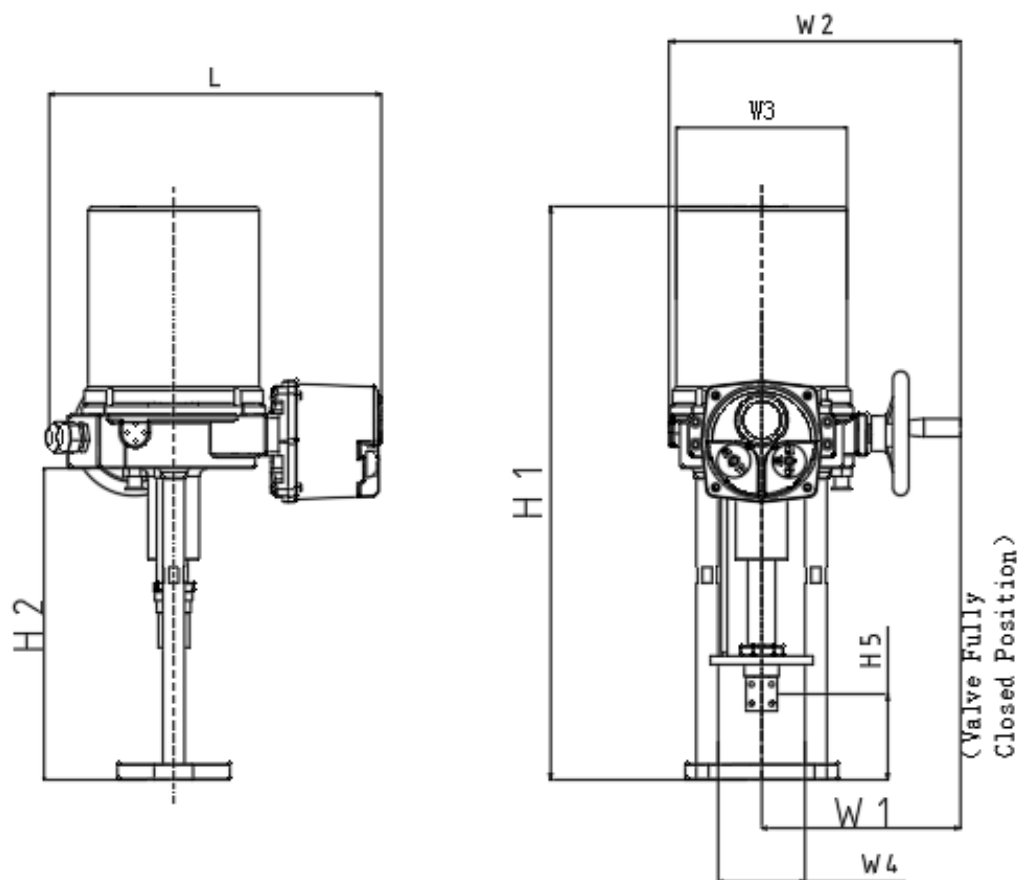
Please select the valve stem
connection size M:

M10×1、 M10×1.25、 M10×1.5
M12×1、 M12×1.25、 M12×1.5
M14×1、 M14×1.25、 M14×1.5
M16×1、 M16×1.25、 M16×1.5



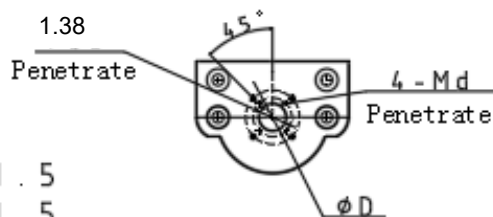


EME/EOE600-L Dimensions Drawing:



Please select the valve stem connection size M:

M10×1、M10×1.25、M10×1.5
M12×1、M12×1.25、M12×1.5
M14×1、M14×1.25、M14×1.5
M16×1、M16×1.25、M16×1.5





Technical data

Model number	Rated torque (ft-lb)	Modulation torque (tf-lb)	Rated Power	Rated Current	Speed	Maximum travel	Stem Connection
EME400-L EOE400-L	2950	1475	15W	1A	0.4 mm/s	40 mm	M10 M12 M14 M16
EME600-L EME600-L	4425	2213	30W	1.8A	0.4 mm/s	40 mm	M10 M12 M14 M16

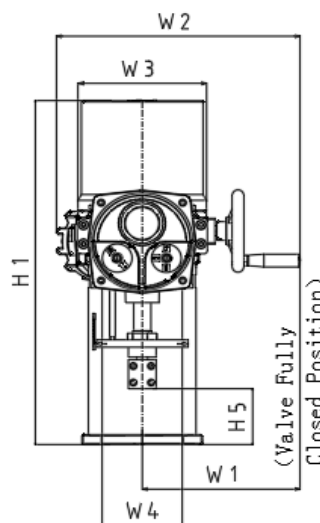
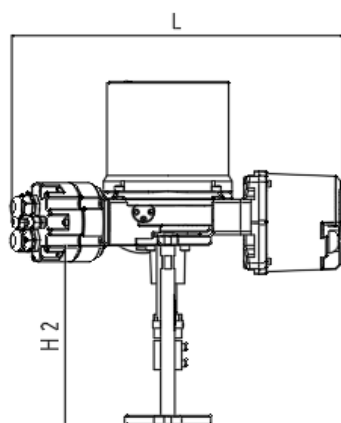
Note: 1.) It is the reference for 380VAC 50Hz 3PH power supply; 2.) Rated power/current 100% load

General Mechanical Dimensions-Integrated type (Unit: inch)

Model number	W1	W2	W3	W4	H1	H2	H3	H5	L	Φ D		M d		Flange	Weight Kg
										ENISO 5210	MSS SP-101	ENISO 5210	MSS SP-101		
Unit: inch															
EME400-L EOE400-L	8.98	13.27	6.93	4.57	20.51	10.75	-	3.35	15.43	Φ1.97 Φ2.76	Φ2.00 Φ2.75	M6 M8	1/4-20 5/16-18	FA05 FA07	49
EME600-L EME600-L	8.98	13.27	6.93	4.57	20.51	10.75	-	3.35	15.43	Φ1.97 Φ2.76	Φ2.00 Φ2.75	M6 M8	1/4-20 5/16-18	FA05 FA07	49

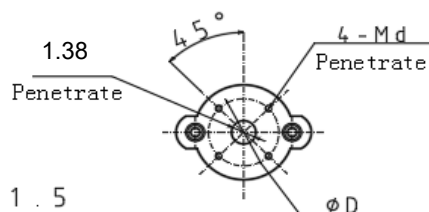
Note : * (Stem height when valve is fully closed)

EME/EOE400- L EXPLOSIVE Dimensions Drawing:



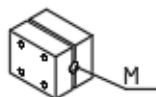
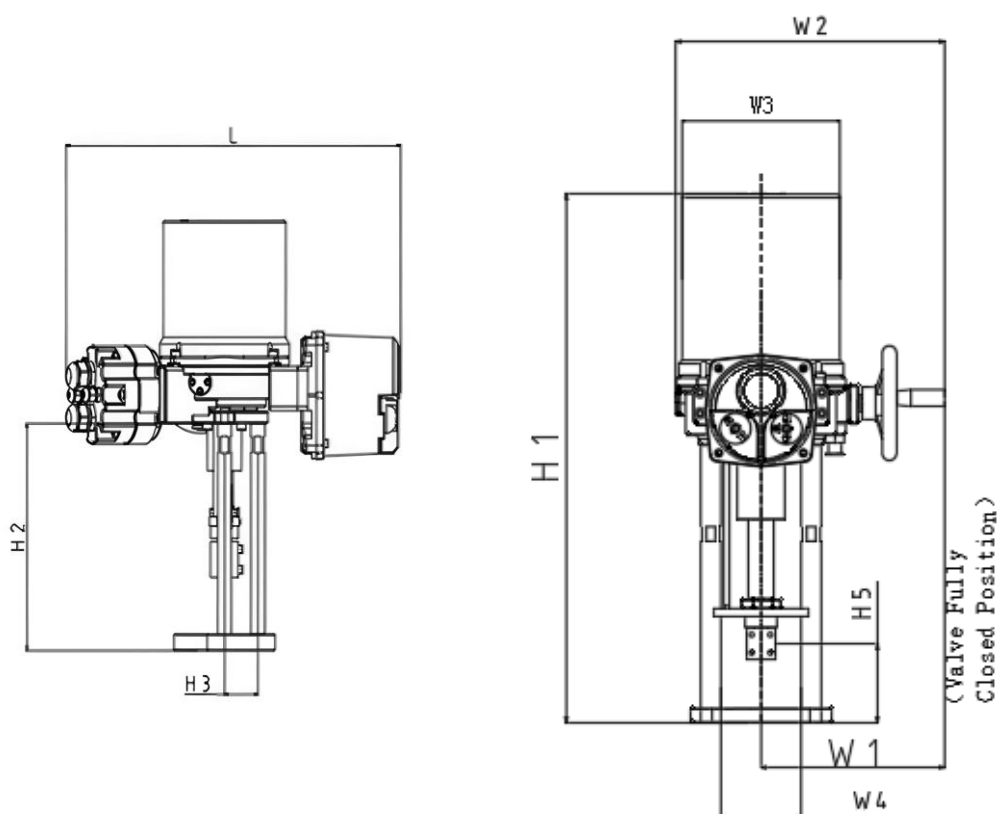
Valve Stem Connection
Dimension: Please Select M:

M10×1、M10×1.25、M10×1.5
M12×1、M12×1.25、M12×1.5
M14×1、M14×1.25、M14×1.5
M16×1、M16×1.25、M16×1.5



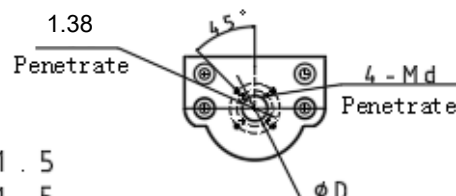


EME/EOE600- L EXPLOSIVE Dimensions Drawing:



Please select the valve stem connection size **M**:

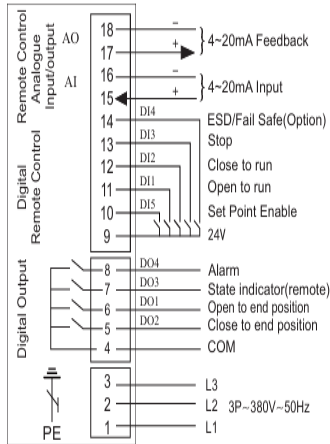
M10×1、M10×1.25、M10×1.5
M12×1、M12×1.25、M12×1.5
M14×1、M14×1.25、M14×1.5
M16×1、M16×1.25、M16×1.5



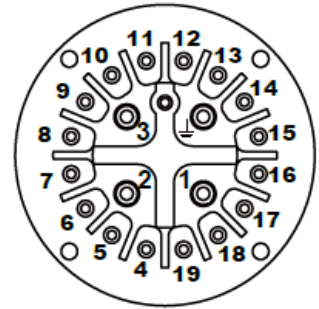
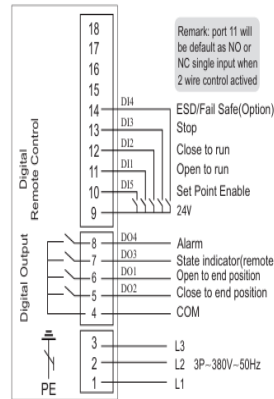


INTELLIGENT TYPE WIRING DIAGRAMS

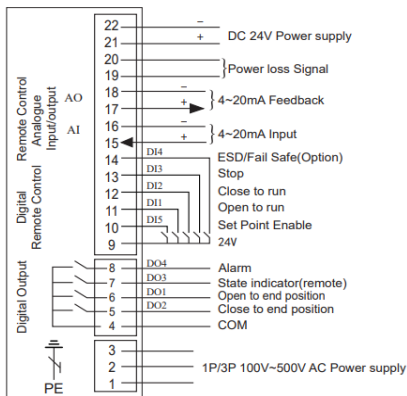
3-phase AC, 380V (Modulating)



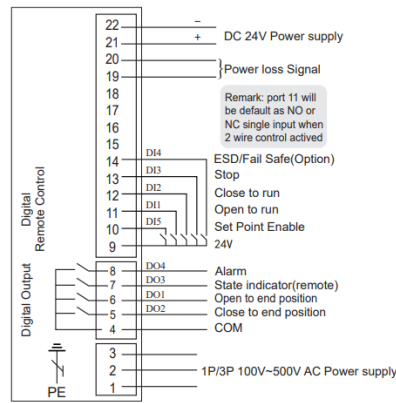
3-phase AC, 380V (on-off)



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

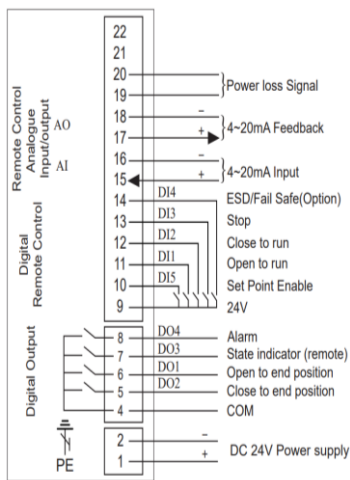


1/3-phase AC 100-500V (on-off)

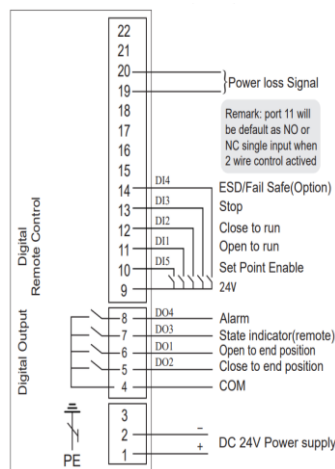


Explosion-proof
IP68 double seal

DC,24V(Modulating)

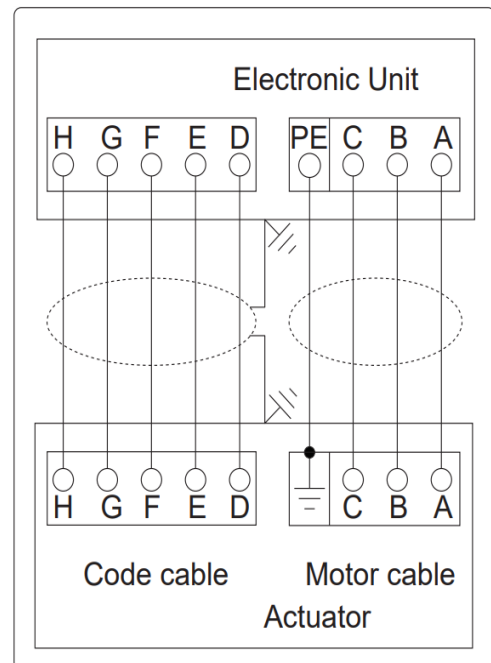
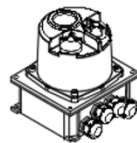
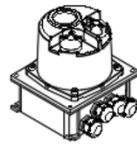
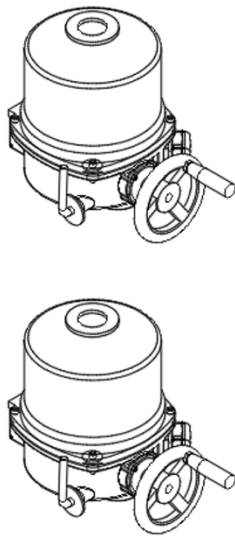


DC,24V(on-off)





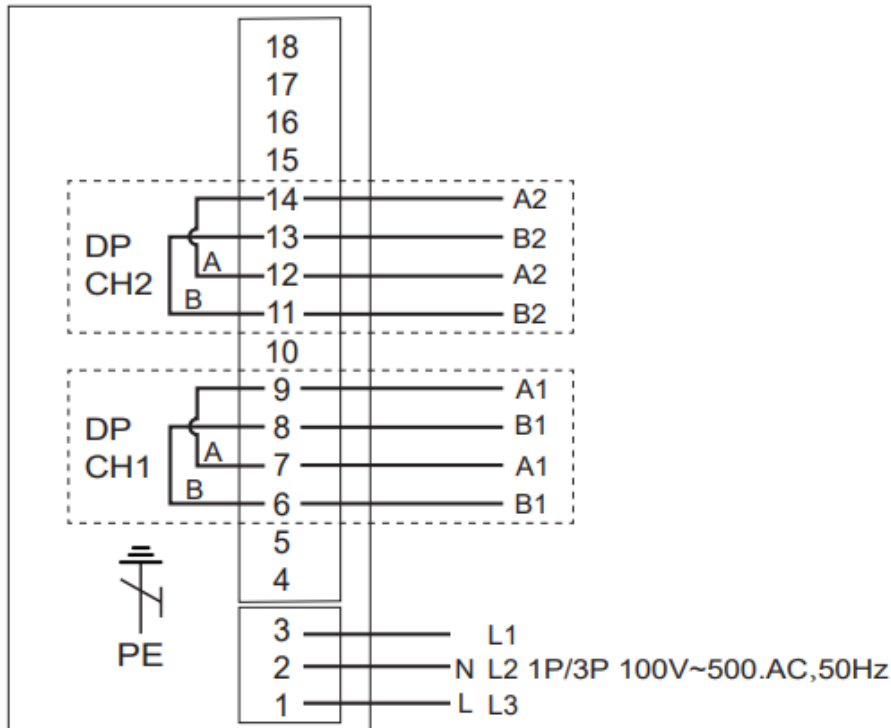
Split-type Electrical Wiring



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



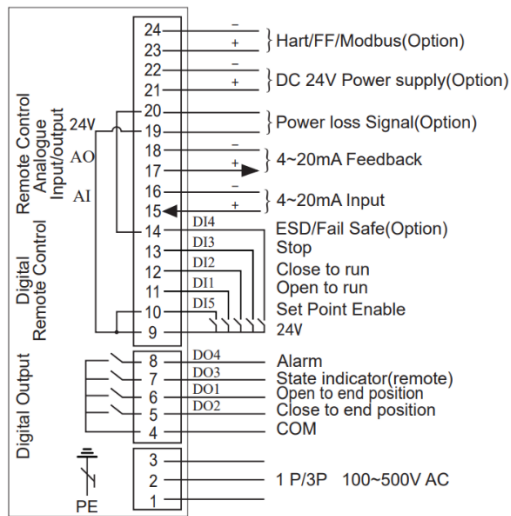
Ontrac electric actuators can optionally support

- 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 38.4kbps/s. Our factory default speed is 9.6kbps/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.

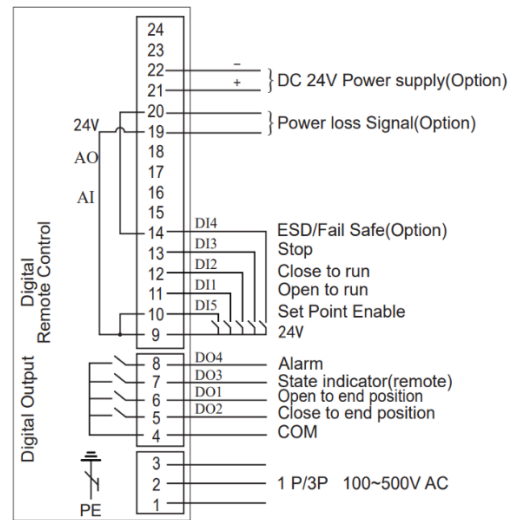


Modbus/Hart Wiring Diagram 288 board

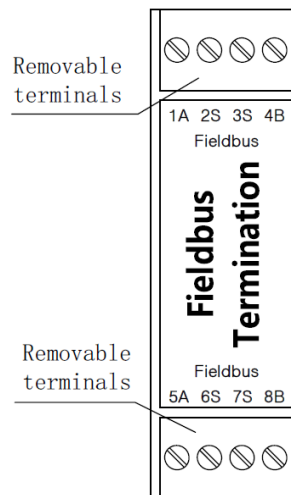
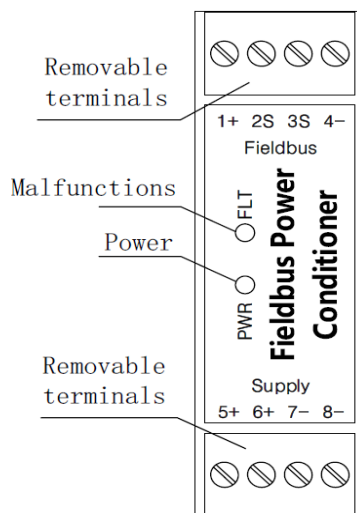
1P/3P 100~500V AC(Modulating duty)



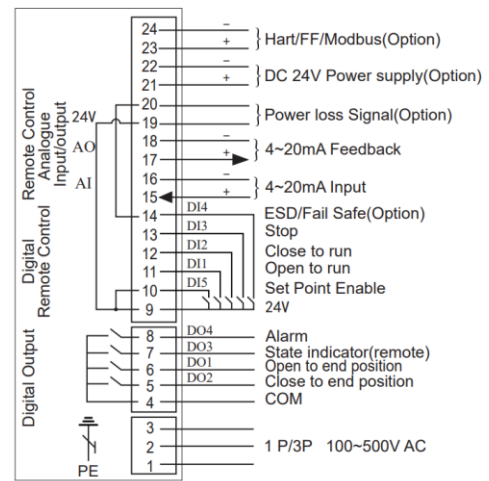
1P/3P 100~500V AC(on-off)



Foundation Fieldbus Wiring Diagram 290 board



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





Output shaft

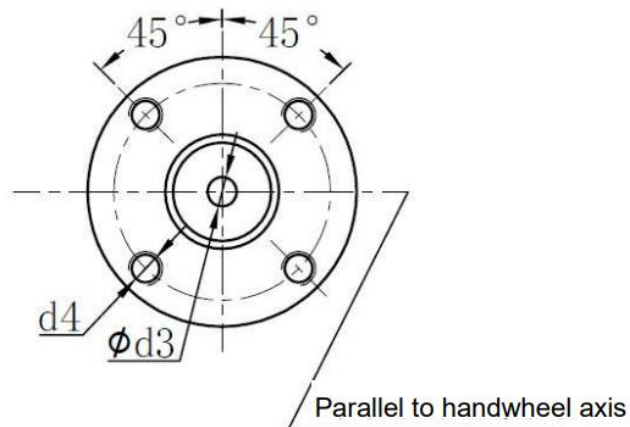
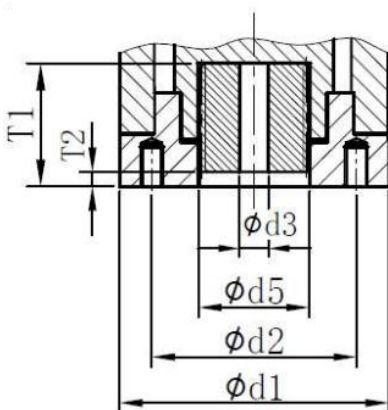
EME400/EOE600	Non-thrust	
Mechanical interface type	Splined bore	Splined bore
Flange size (ISO 5210)	FA05	/
Maximum square spindle diameter (inch)	/	/

EME600/EOE600	Non-thrust	
Mechanical interface type	Splined bore	Splined bore
Flange size (ISO 5210)	FA07	/
Maximum square spindle diameter (inch)	/	/

Flange structure and valve connection size (Unit: inch)

Model	Code	Flange	d1	d2		d3		d5	T1	T2	d4
				Standard size	Factory default	Factory default	Max stem Diameter (keyway)				
EME/EOE400		FA05	Ø5.71	Ø1.97	Ø1.97	/	/	Ø1.38	/	/	4-M6 deep 0.59
EME/EOE600		FA07	Ø5.17	Ø1.97	Ø2.76	/	/	Ø1.38	/	/	4-M8 deep 0.71

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