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ELECTRIC ACTUATORS

SERIES EL-750

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1. Due to characteristics of valve, the electric actutor must be able to provide high start up torque with full load whenever the valve is at open, closed or any other position. Valtorc EL-750 series electric actuators are designed for such working requirement.
2. Gear driving unit is made of alloy steel with heat treatment featuring high strength, excellent wear resistance and long term fatigue load impact.
3. The crank handle is designed as detachable to minimize the dimension of the actuator.
4. The integral construction of the wormgear and drive shaft provides long term dependable operation with high output torque.
5. The captive cover bolt prevents bolt from dropping when cover is opened.
6. The stainless steel stroke bolt and cam provide 0 - 90° adjustability.
7. The tempered glass visual position indicator provides anti-aging, temperature resistance and anti-deformation.
8. The epoxy encapsulated control servo unit provides heat insulation, moisture and dust proofing, thus suitable for various industrial process requirements.

Techanical Data

Model		EL-750-20	EL-750-30	EL-750-50	EL-750-100	EL-750-200	EL-750-400	EL-750-600	EL-750-1000	EL-750-1600	EL-750-2000
Output Torque -(Nm)		20	30	50	100	200	400	600	1000	1600	2000
Operational Speed (Sec.) @ 0-90°/50Hz		4	10	20 / 60	30 / 60	30 / 60	30 / 60	45	30	48	60
Operational Angle(Max.)		0-360°	0-360°	0-360°	0-360°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°
Power - (Watts)	DC motor	13	13	13	25	35	70	70	-----	-----	-----
	AC motor	10	10	10	25	40	90	90	120	140	140
Rated Current - (A)	24VDC	1.28	1.28	1.28	2.03	3.57	5.13	6.04	-----	-----	-----
	110VAC	0.24	0.24	0.24	0.57	0.65	1.12	1.18	1.93	1.75	1.75
	220VAC	0.16	0.16	0.16	0.35	0.37	0.57	0.60	0.94	0.96	0.98
	380VAC	-----	-----	-----	0.10	0.15	0.29	0.29	0.44	0.46	0.48
Duty Rating		30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
Weight - (Kg)		2.0	2.0	2.0	3.0	8.0	8.5	9.0	17.0	17.5	18.0
Power Supply		1 Phase: 110/220VAC±10% @ 50/60Hz, 3 Phase/ 380VAC±10% @ 50/60Hz, 12VDC, 24 VDC									
Thermal Protector		Standard accessory; built-in, auto-reset type									
Insulation Resistance		24VDC:100MΩ @ 250VDC,110/220/380VAC:100MΩ @ 500VDC,									
Withstand Voltage		24VDC: 550VAC @ 1Min. , 110/220VAC: 1500VAC @ 1Min. , 380VAC:1800VAC @ 1Min.									
Enclosure Rating		IP68									
Ambient Temperature		- 30°C~ +60°C									
Mounting Direction		All directions									
Electrical Conduit		G1/2" with cable gland for standard type(2xG1/2" with cable gland for modulating type)									
Manual Operation		Detachable crank handle(standard accessory)									
Stopper		In operation: limit switches at full & closed position.Manual operation: mechanical stopper									
Housing Material		Die-casting aluminum alloy									
Various Options		1.Type A: standard type									
		2.Type B: additional limit switches(2units)									
		3.Type C: potentiometer unit(1KΩ or 500Ω)									
		4.Type D: potentiometer unit(1KΩ or 500Ω) with additional limit switches(2units)									
		5.Type E: modulating controller(input signal : 4-20mA or 1-5VDC, output signal: 4-20mA)									
		6.Type F: current position transmitter(output signal : 4-20mA)									
		7.Space heater									
		8.Torque switches(2units)									
		9.Various voltages(110/220/380VAC & 24VDC, the other voltage is available upon request)									
		10.Various mounting brackets									

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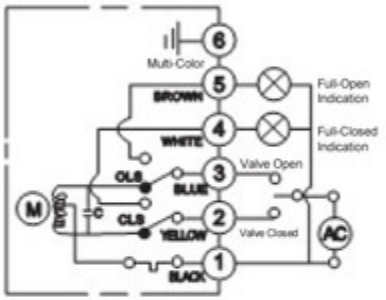
Type A: With Limit Switch (Standard Type)

Function:

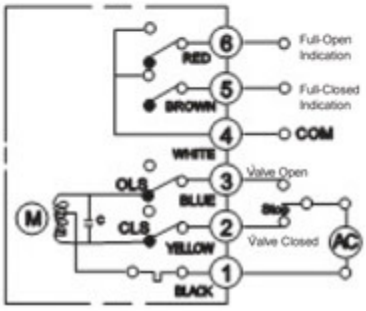
The opening & closing operation is controlled by the external control circuit. Output signal comes from the power line at open and closed positions of valve.



Type B: With Additional Switches

Function:

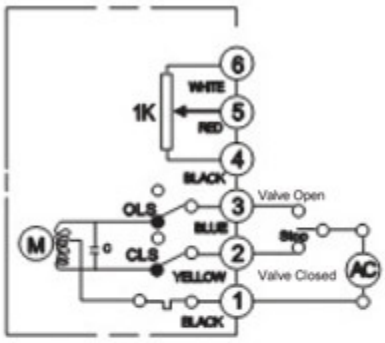
The opening and closing operation is controlled by the external control circuit having 1 NO (normally open) & 1 NC (normally closed) output switches.



Type C: With Potentiometer

Function:

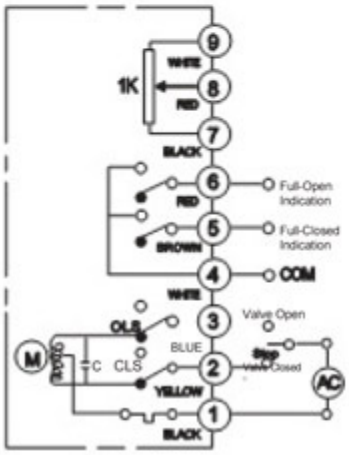
The valve opening position is controlled by the external control circuit. The output: 500Ω or 1000Ω potentiometer is relative to the valve position.



Type D: With Potentiometer and Additional Switches

Function:

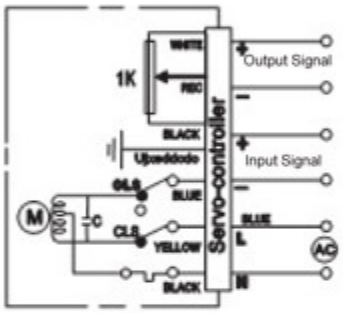
The valve opening position is controlled by the external control circuit. The output: 1 NO(normally open) & 1NC(normally closed) output switch with 500Ω or 1000Ω potentiometer.



Type E: With Modulating Servo Module (Modulating Type)

Function:

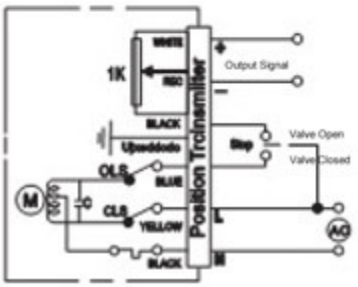
Modulating Type, input signal: 4~20mADC or 1~5VDC; output signal: 4~20mADC.



Type F: With R/I Converter

Function:

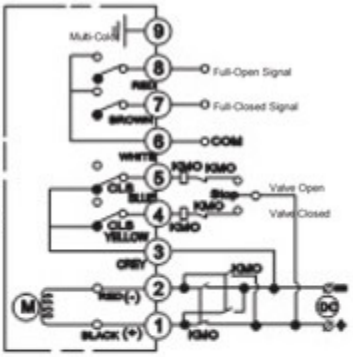
The output signal 4-20mADC is relative to the valve position.



DC Motor With Intermediate Position Switch

Function:

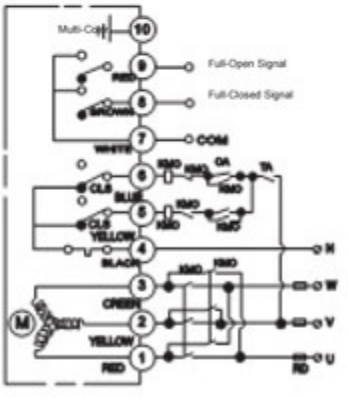
By means of polarity exchange from the external control circuit to change the rotation. The output signal:1 NO (normally open) & 1NC (normally closed) output switch.

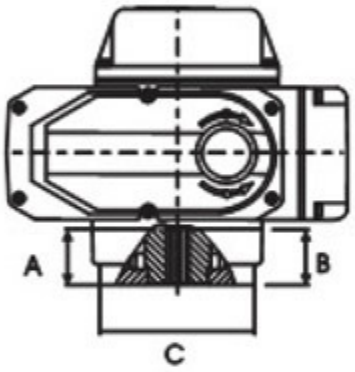


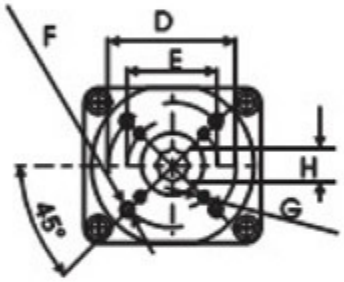
3-Phase, 380 VAC Control Circuit for AC Motor

Function:

By means of the external phase reversing circuit to change the rotation. The output signal:1 NO (normally open) & 1NC (normally closed) output switch.

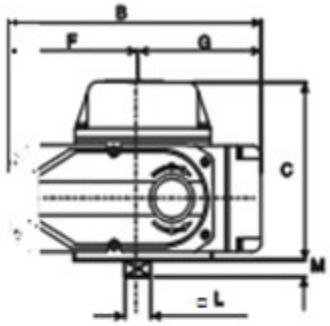


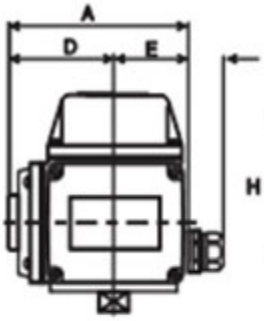


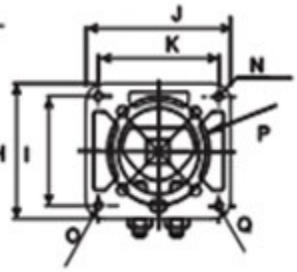


Actuator + ISO-5211 Mounting Bracket

Model	A	B	C	D	E	F	G	◇H
EL-750-30/50	19	22	70	50	36	4-M6	4-M5	9 /11/14
EL-750-100	33	36	90	70	50	4-M8	4-M6	9 /11/14
EL-750-200	45	48	125	102	70	4-M10	4-M8	14/17
EL-750-400/600	45	48	125	102	70	4-M10	4-M8	17/22
EL-750-1000/1600	47	50	135	125	102	4-M10	-----	22/27
EL-750-2000	67	70	175	165	140	4-M16	-----	36







Bare Shaft Actuator

Model	A	B	C	D	E	F	G	H	I	J	K	□L	M	N	O	P	Q
EL-750-20/30/50	113	160	102.5	63	49	83	77	72	60	80	68	12	12	63	70	8-M6	4-M8
EL-750-100	121	196	126	71	50	98	98	86	70	98	82	15	12	-----	70	-----	8-M8
EL750-200/400	158	255	148	95	63	121	134	106	84	135	118	23	23	-----	-----	4-M8	4-M10
EL750-600	158	255	148	95	63	121	134	106	84	135	118	25	23	-----	-----	4-M8	4-M10
EL750-1000/1600/2000	207	310	162	120	87	148	162	140	116	160	136	30	26	-----	-----	4-M10	4-M12