

EMICO





EUNHA MACHINERY INDUSTRIAL CO., LTD. (EMICO)

Electric Multi-turn Actuator

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electric actuators in Korea and provides the best quality products EMICO, founded in 1986, is the leading manufacturer of with high technology and satisfactory services.

steelworks, power plants over 30 countries as well as domestic sales. EMICO supplies electric actuators especially to buildings, plant, Korea and accelerated to expand market and to satisfy customers' EMICO has launched spring return actuator for the first time in need by specialized products.

We have made concerted efforts with expertise in electric actuators and continuous investment in R&D to be the world best in the market.

We promise we do everything we can to supply the reliable products and competent services.





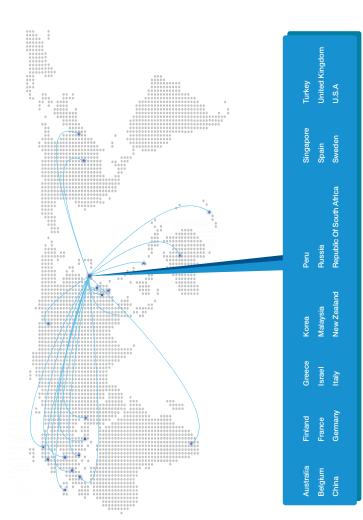


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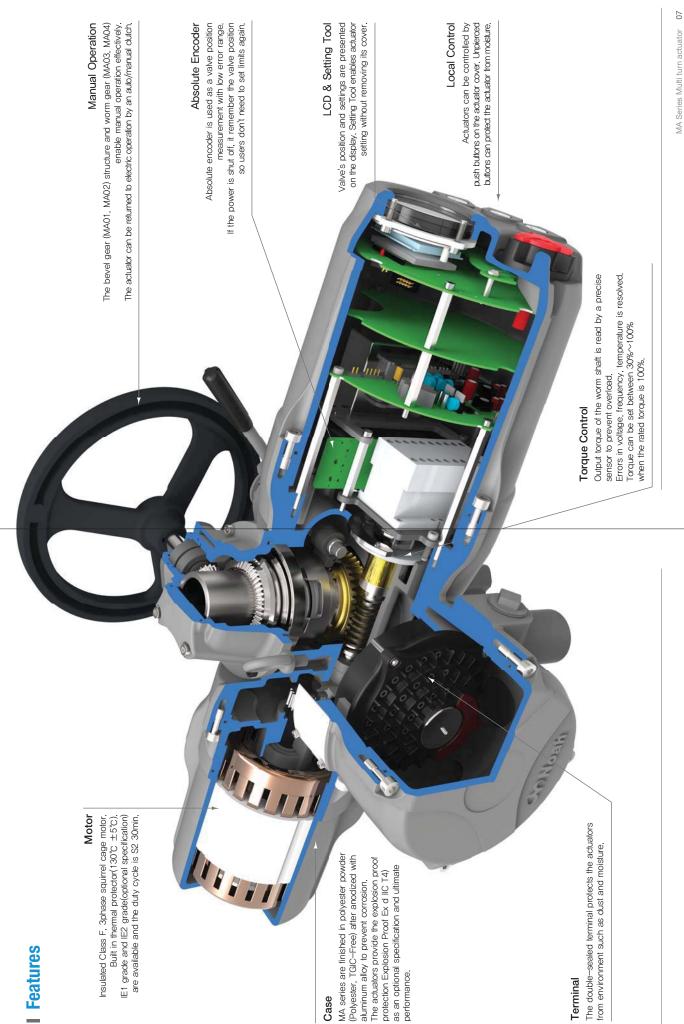
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| Configuration







performance.

Terminal

Base & Drive Bushing

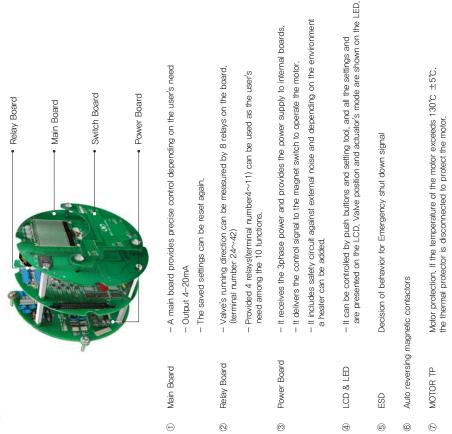
Manufactured in accordance with ISO5210 and both Thrust type and Non-Thust type are available.

Non-Thrust Type	When there is a gear box between the valve and the aduator, For butterity valves or ball valves.
Thrust Type	In case of mounting the valve with the actuator directly. For gate valves or glove valves.

Base & Drive Bushing & Cable Entries SPEC.

7	Flange	(í C	Max	Max Size	Cable Entries	Cable Entries
Model	(1SO5210)		a ව	Screw	Key	Standard	Option
MA01	F10	Ø102	4 - M10	40	30	:	
MA02	F14	Ø140	4 - M16	58	46	2 × NPT1" 1 × NPT1 1/2"	4 × NPT1 " 1 × NPT1 1/2"
MA03	F16	Ø165	4 - M20	72	58	2 x M25 Pitch1.5 1 x M40 Pitch1.5	4 x M25 Pitch1.5 1 x M40 Pitch1.5
MA04	F25	Ø254	8 - M16	26	82		

Board



Battery

If the power is shut off, valve position and running direction can be presented on the display by the battery. If there is no operation in actuators, LCD screen is turned off for the battery lifespan and recover when there is operation.

connectors' shapes and colors are different for ease of assembly and produced

against vibration.

Connector

@

MH28122
UL Approval Number
3500mAh
Capacity
3.6V
Voltage
/ XL-100F
XENOENERGY
Manufacturer / Model

60

Setting Tool



This is t	o set a	This is to set actuators and operate locally.
Battery	<u></u>	1.5V AA Size 2EA
Setting	Tool	Setting Tool Method of Operation
+		In OFF mode, menus and values can be set. In LOCAL mode, operate the actuator to open direction.
ı		In OFF mode, menus and values can be set. In LOCAL mode, operate the actuator to close direction.
S	밀	In OFF mode, to enter the setting menu.
٦	N C	In OFF mode, select the menu.
C	<u> </u>	In OFF mode, to return to previous menu.

Standard Specification

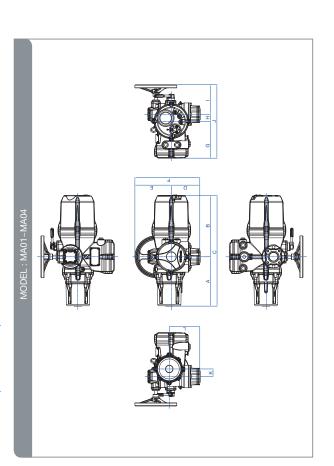
Enclosure	Watertight Ingress Protection 68 Nema 4 and 6
Ambient Temperature	-20°C to +70°C
Power Supply	3PH 220 / 380 / 400 / 415 / 440 / 460 / 480 VAC 50/60Hz
Stall Protection	Built - in Thermal Protection
Manual Override	Manual /electric operating device
Limit Switch	Absolute Encorder
Torque Switch	Torque Sensor
Handle	MA01,02: Bevel Gear, MA03,04: Worm Gear
Duty Cycle	S2 30min
Base	ISO5210
Self Locking	Provided by means of Worm Gearing
Lubrication	Shell Gadus S2 V220 00
Material	Aluminium
Surface Treatment	Anodizing
External Coating	Polyester(TGIC-Free)

Optional Specification

Speed-torque table

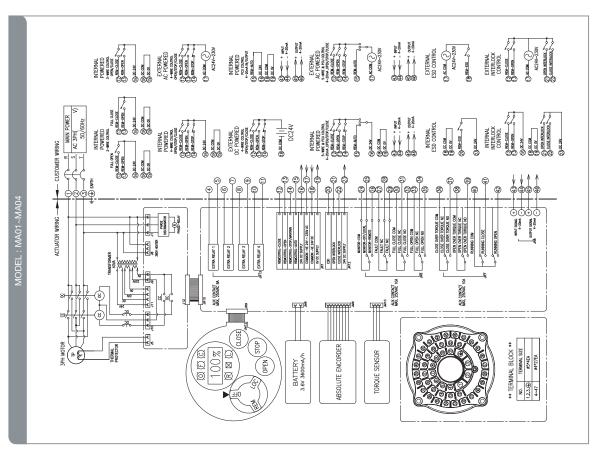
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?	306	90	306	90	251	19	199	0	158	φ	=	114	00	68
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Dimension (MA01~MA04)



	189.5	217.5	254.5	332
쏘	46.8	34.5	33.5	74
7	455.5	471.3	487	553
_	183	205.5	206	235
I	44	37.8	53	69
Ø	228.5	228	228	249
ш	402.5	456.5	507.5	594
ш	226	263.5	280.5	323.5
۵	176.5	193	227	270.5
O	686.5	783	904.5	1070.5
ш	380.5	395	483.75 420.75 904.5	521
∢	306	388	483.75	549.5
Type	MA01	MA02	MA03	MA04

Wiring



 \times The above wiring diagram is for the multi-turn actuator with full optional specification. Please contact EMICO or its distributor to get the wiring diagrams with other specification.