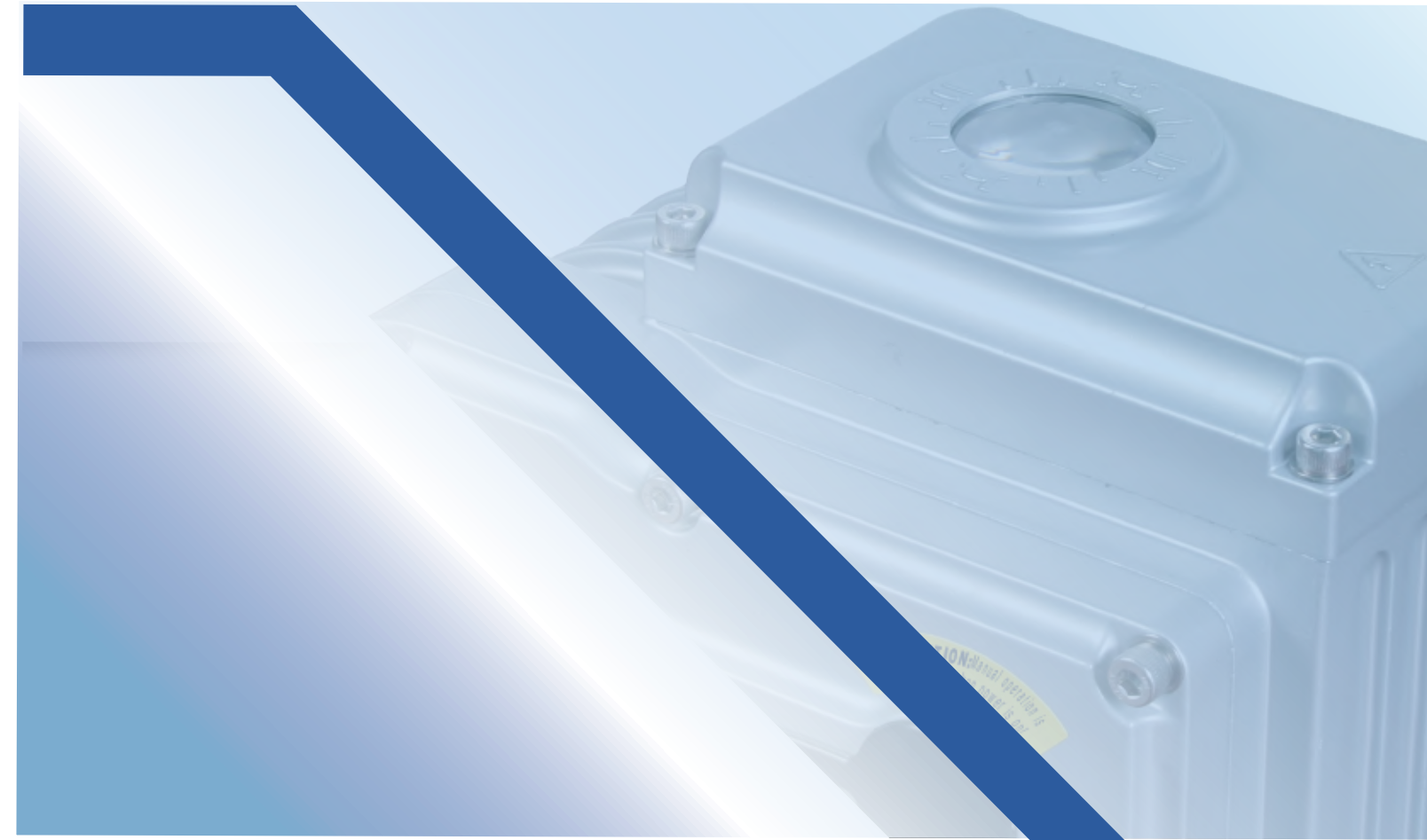




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E01 Series

Compact Quarter-turn
Electric Actuator





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- 02 • **Product Features**
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E01 Series



Product Introduction

E01 series compact quarter-turn electric actuator is the motor through the rotary force of multi-stage reduction gear, worm gear and other mechanisms, and finally through the output shaft, in the form of rotation 90° to switch the valve device, mainly to drive and control the valve opening, such as butterfly valve, ball valve, plug valve and other similar valve application. The output torque range is 50~2500N.m, and the control mode is mainly divided into two types: on/off type and modulating type.

The product housing use die-cast aluminum alloy, multistage reduction gear, copper alloy worm wheel and high strength alloy worm transmission structure. Actuator output clearance is small, stroke repetition deviation within $\pm 1^\circ$, high control accuracy, for buildings and civil construction and other industries to provide quality solutions.

Limit Function

Adopt double CAM, convenient travel position setting.

Process Control

The actuator adopts QR code tracing to strictly control product quality.

Appearance design

Patented streamlined design, small size, light weight, suitable for small space applications.

Operational Safety

Class F insulation motor. The motor winding has a temperature control switch to sense the temperature of the motor to protect the overheating issues, thus ensures the operational safety of the motor.

Anti-Corrosion resistance

The housing is coated with anti-corrosion epoxy powder coating, which has strong adhesion and corrosion resistance. All fasteners are stainless steel for outdoor applications.

Indicator

Use plane pointer and scale to show the valve opening, take up little space.

Wiring Simple

Plug - in terminal for easy connection.

Reliable Sealing

Adopt long - acting sealing ring design, effectively ensure water - proof grade.

Moisture Resistance

Installed with heater inside the actuator to prevent condensation and extend the life of the actuator.

Manual Operation

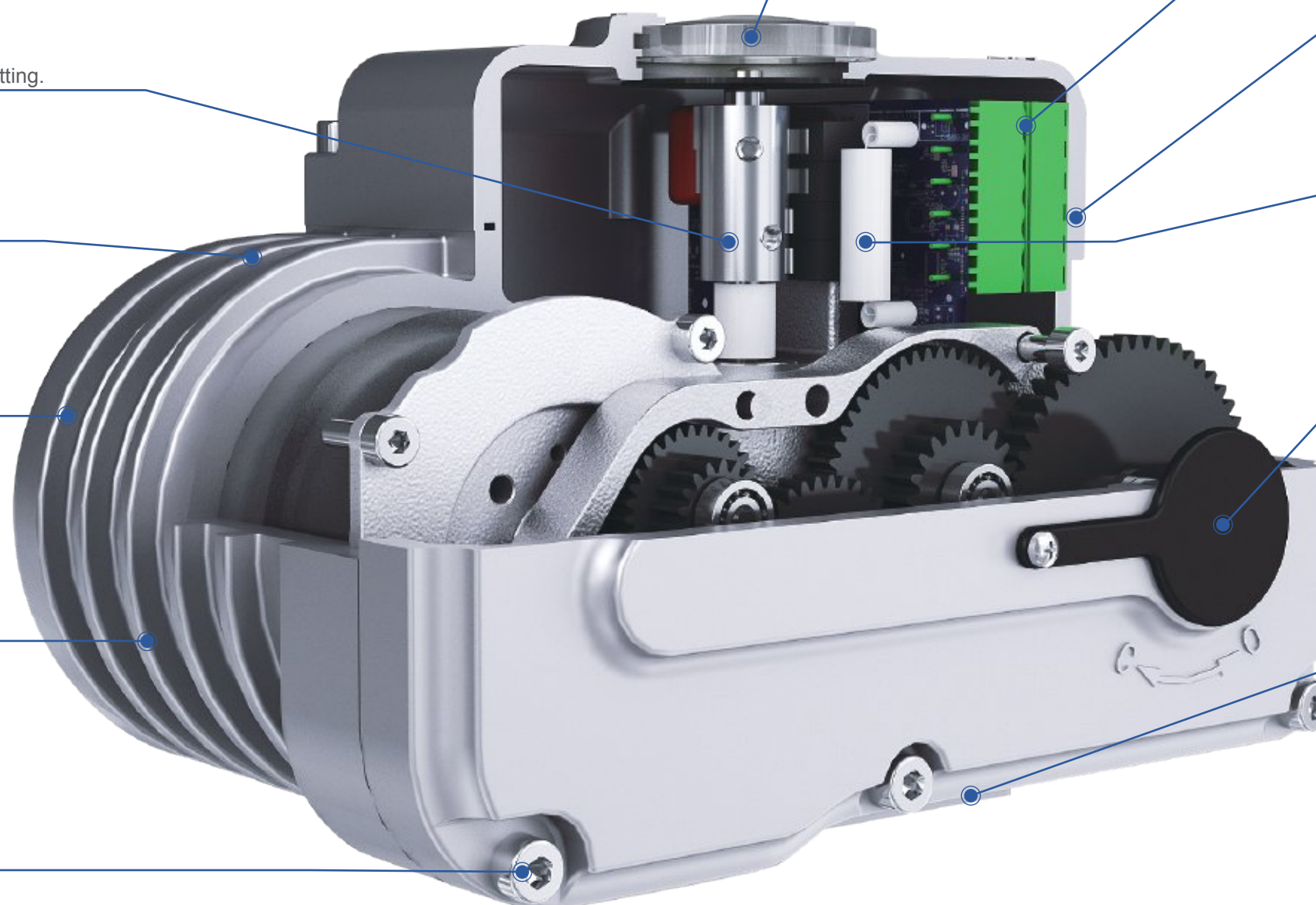
After the power is cut off, open the rubber cover and insert the matching Z-wrench to open and close the valve manually.

Connecting Flange

The bottom connection holes are in accordance with ISO5211 standard, also with double flanges and octagon drive sleeve. The installation angle can be changed flexibly to connect the valve flange with different hole position and angle

Packaging

Product packaging with pearl cotton, accord with ISO2248 drop test.



E01 Compact Quarter-turn Electric Actuator
-Technical Specification

Mode	E01 Series
Torque Range	50~2500N.m
Ingress Protection	IP67, Optional:IP68
Working Time	On/off type:S2-15min Modulating type:S4-50%
Applicable Voltage	AC110V,AC220V±10% 1 Phase;50/60Hz±5%, Optional:AC/DC24V,AC380V(Basic type)
Ambient Temperature	-25°~+60°C
Relative Humidity	≤90%(25°C)
Motor Specifications	Class F, with thermal protector
Output Connect	ISO5211 direct connection, star bore
Modulating Functional Configuration	Support loss signal mode, signal reversal selection function
Manual Device	Wrench operation, Optional:hand wheel
Position Indicator	Flat Pointer Indicator
Input Signal	On/off type:On/off signal Modulating type:Standard 4-20mA (input impedance: 150Ω) . Optional:0-10V, 2-10V, Optoelectronic isolation
Output Signal	On/off type:2-dry contact and 2-wet contact Modulating type:Standard 4-20mA (output impedance:≤750Ω) . Optional:0-10V, 2-10V; Optoelectronic isolation
Cable Interface	On/off type:1*PG13.5 Modulating type:2*PG13.5
Space Heater	Standard
Over Torque Protection	Over torque switches are available expect E01-05
Color	RAL9006 (Silver grey) , Anti corrosion epoxy powder coating

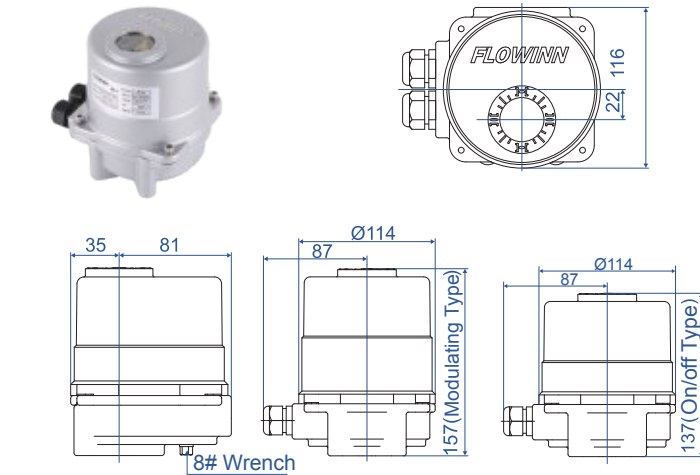
E01 Compact Quarter-turn Electric Actuator
-Technical Performance

Mode	Power (W)	Max output Torque (N.m)		Running time (Sec) 50Hz			ISO5211	Stem connection dimensions (mm)	Stem height (mm)	Weight (kg)	Remark
		AC110V AC220V AC/DC24V	AC380V 3 Phase	AC110V AC220V 50Hz	AC380V	AC/DC 24V					
E01-05	6	50	—	19	—	14	F03/F05 /F07	□ 9x9 □ 11x11 □ 14x14	≤20	2	8# Wrench operation
E01-10	25	100		30		23	F05/F07	□ 11x11 □ 14x14 □ 17x17	≤32	4.5	6mm Allen manual wrench operation
E01-20	40	200		30		23	F07/F10	□ 14x14 □ 17x17 □ 22x22	≤44	10	
E01-40	60	400		30		23					
E01-60	90	600		30		23		□ 27x27			
E01-100	120	1000		30		23	F10/F12	□ 22x22 □ 27x27	≤30	26	
E01-160	120	1600		42		32					
E01-250	120	2500		70		53	F14 F16	□ 27x27 □ 36x36	≤48		

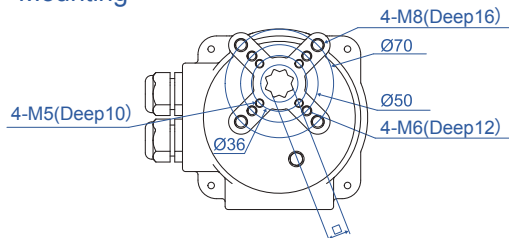
- Note: 1.Standard configuration.
2.Rated torque is 75% of the max torque.
3.The running time above is 50Hz, the running time of 60Hz is 5/6 of that of 50Hz. The max output torque is the same as above.
4.If the stem height of the valve is larger than the above size, please contact sales staff for customization.

E01-05

Unit: mm



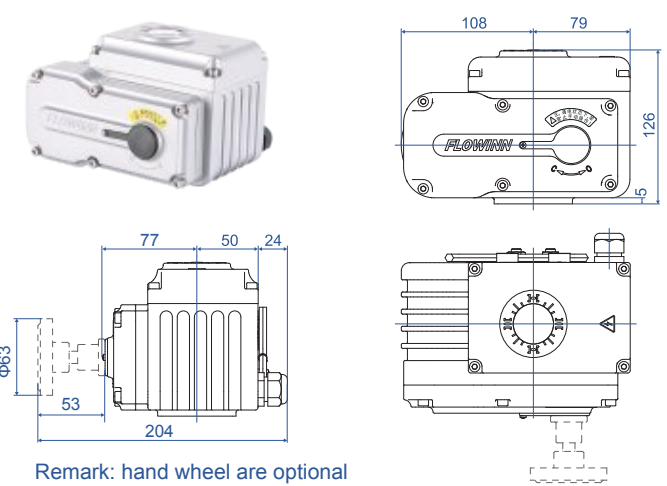
Mounting



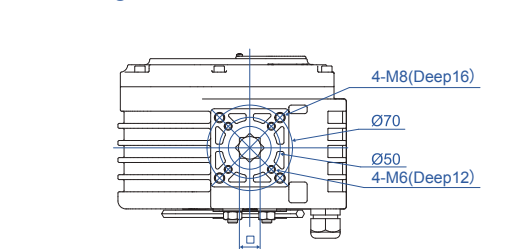
Mode	E01- 05
Stem Size	□ 9x9 □ 11x11 □ 14x14
Flange Size	F03 / F05 / F07
Stem Height	≤20

E01-10

Unit: mm



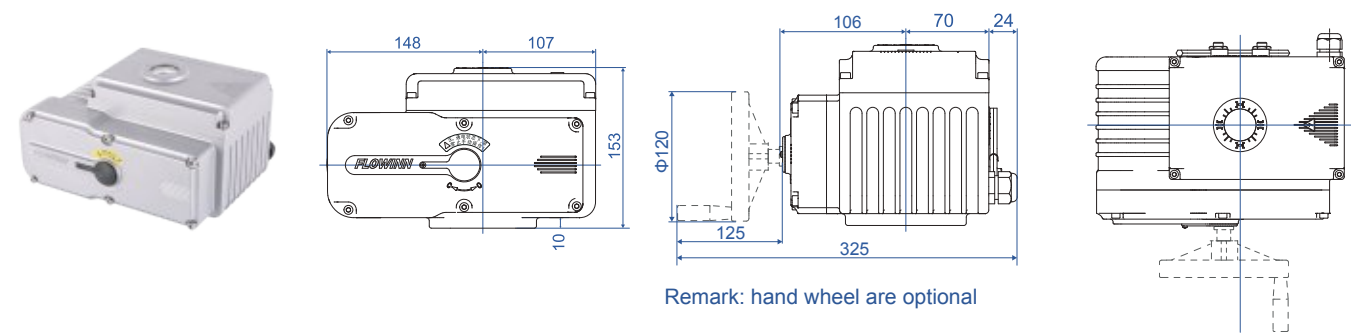
Mounting



Mode	E01- 10
Stem Size	□ 11x11 □ 14x14 □ 17x17
Flange Size	F05 / F07
Stem Height	≤32

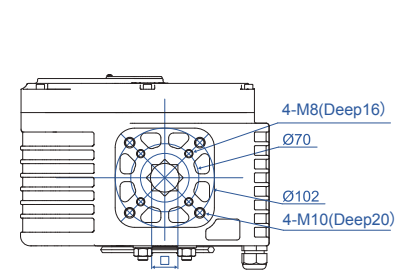
E01-20/40/60

Unit: mm



E01-20/40/60

Unit: mm

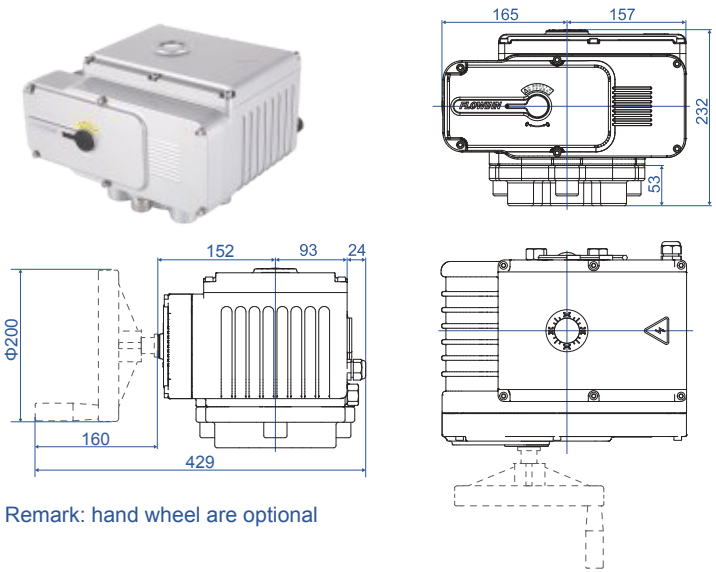


Mounting

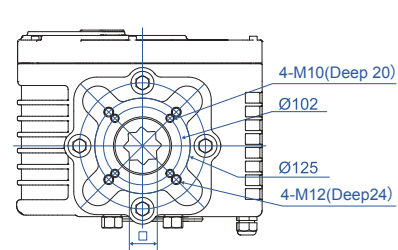
Mode	E01- 20/40	E01-60
Stem Size	□ 14x14 □ 17x17 □ 22x22	□ 27x27
Flange Size	F07 / F10	
Stem Height	≤44	

E01-100/160

Unit: mm



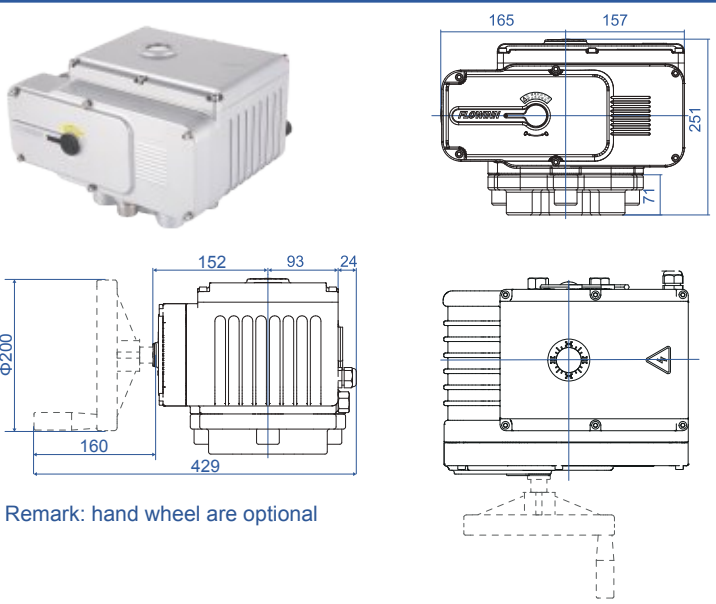
Mounting



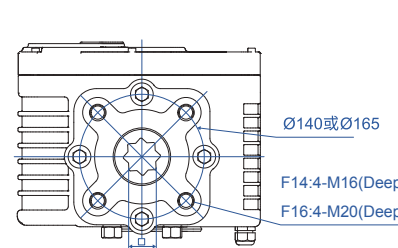
Mode	E01- 100/160
Stem Size	□ 22x22 □ 27x27
Flange Size	F10 / F12
Stem Height	≤30

E01-250

Unit: mm

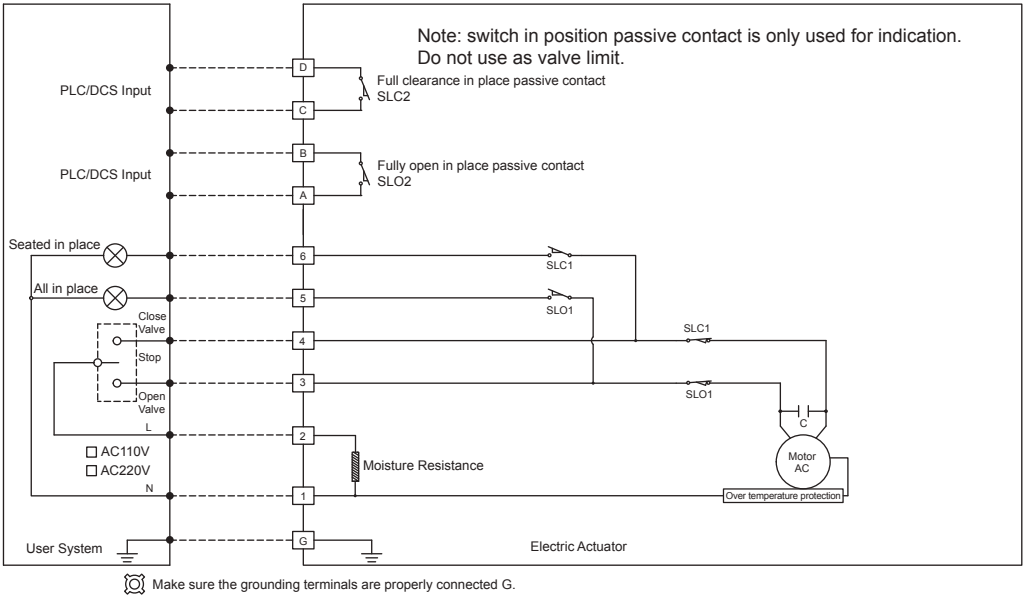


Mounting

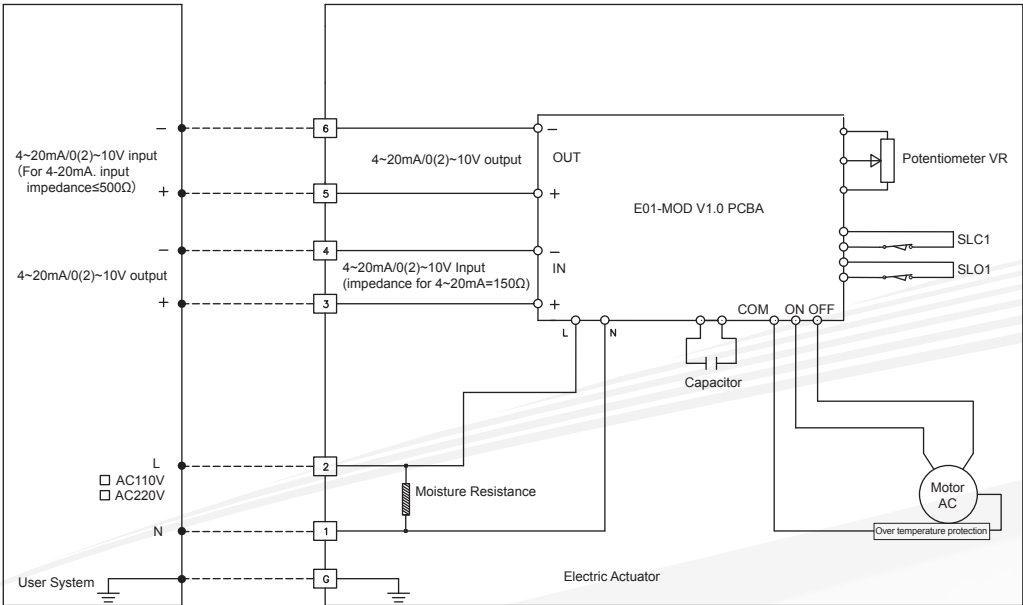


Mode	E01- 250
Stem Size	□ 27x27 □ 36x36
Flange Size	F14 F16
Stem Height	≤48

E01 Signal phase on/off type wiring diagram



E01 Signal phase modulating type wiring diagram



Order Code

- E01 05 O d S K2
- Signal Code: K2:(Active + passive) feedback T1/T3:0-10V/4-20mA
 - Color: S:Sliver grey/RAL9006(matt)
 - Voltage: d:220-230VAC e:380V(Basic type) g:AC/DC24V(Basic type) q:110-120VAC
 - Control Mode: O:On/off I:Modulating
 - Output torque: 05 (50N.m);10(100N.m);20(200N.m)
 - Compact quarter-turn electric actuator

SERVICES

Our professional service team is ready to provide users with comprehensive services and professional technical supports at all time:



Under normal use,
two years warranty



Stable delivery time



For special requirements,
we provide customized solutions



On-site installation and debugging



Regularly follow up our products
status and maintenance



We provide training for structure knowledge,
operation, debugging, maintenance and more