

Ezi-SERVO[®] II

Closed Loop Stepping System

- Motor + High Resolution Encoder + Drive + Motion Controller
- Space Saving / Reduced Wiring
- Ethernet Interface
- Closed-Loop Stepping System
- Tuning Not Required / No Hunting
- Low Heat Generation / High Torque

Plus-E
ALL



CE

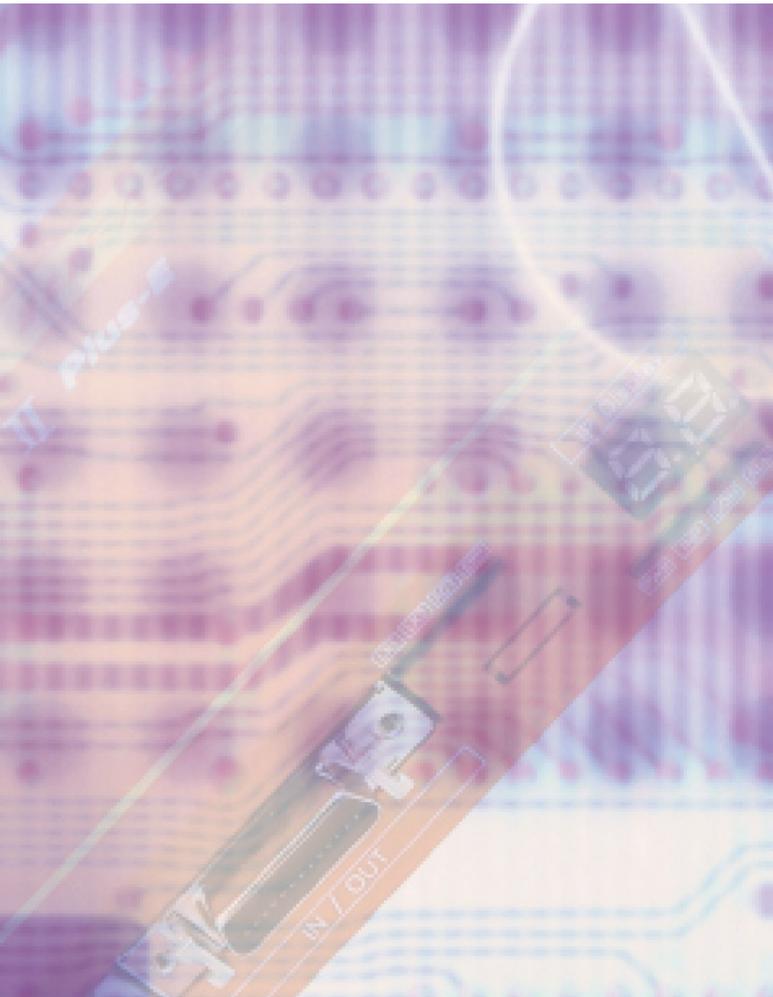
FASTECH

Fast, Accurate, Smooth Motion



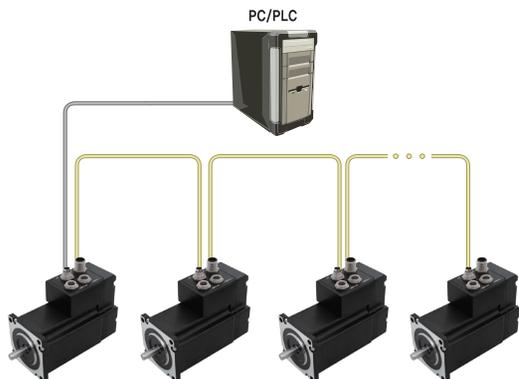
Fast, Accurate, Smooth Motion

Ezi-SERVO[®] II Plus-E
Closed Loop Stepping System **ALL**



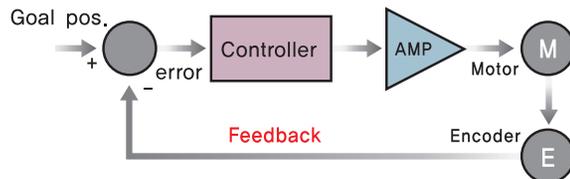
1 Network Based Motion Control

A maximum of 254 axis can be operated from a PC through Ethernet communications. And daisy-chain connection is available thru internally equipped Ethernet HUB. All of the Motion conditions are set through the network and saved in Flash ROM as a parameter. Motion Library(API) is provided for programming under Windows 7/8/10.



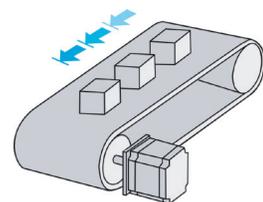
2 Closed-Loop System

Ezi-SERVOII is an innovative Closed-Loop System that utilizes a high-resolution motor mounted encoder constantly to monitor the current position. The encoder feedback allows the Ezi-SERVOII to update the current position every 50µs. It allows the Ezi-SERVOII drive to compensate for the loss of position, ensuring accurate positioning. For example, due to a sudden load change, a conventional stepping motor and drive could lose a step but Ezi-SERVOII automatically correct the position by encoder feedback.



3 Tuning Not Required

To ensure machine performance, conventional servo systems require the adjustment of its servo's gains as an initial crucial step. Even systems that employ auto-tuning require manual tuning after the system is installed. Ezi-SERVOII employs the best characteristics of the stepping motor to eliminate the need of tedious gain tuning required for conventional closed-loop servo systems. Ezi-SERVOII is especially well suited for low-rigidity loads (e.g., a belt and pulley system) that sometimes require conventional servo systems to use the additional bulky and expensive gearbox.

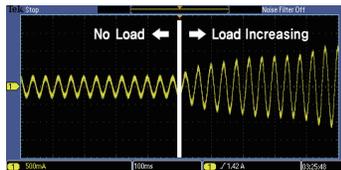
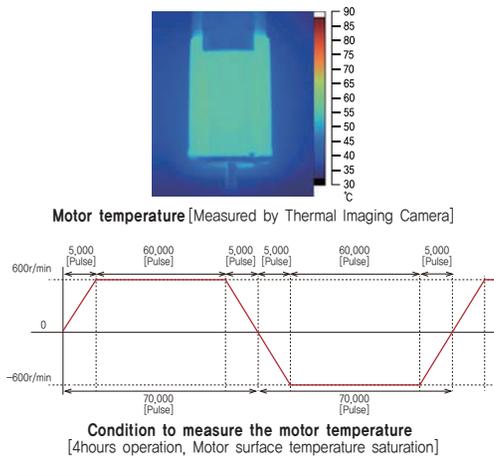


4 Low Heat Generation / Energy Savings

(Motor Current Control according to load)

Ezi-SERVOII automatically controls motor current according to load.

Ezi-SERVOII reduces motor current when motor load is low and increases motor current when load is high. By optimizing the motor current, motor heat can be minimized and energy can be saved.

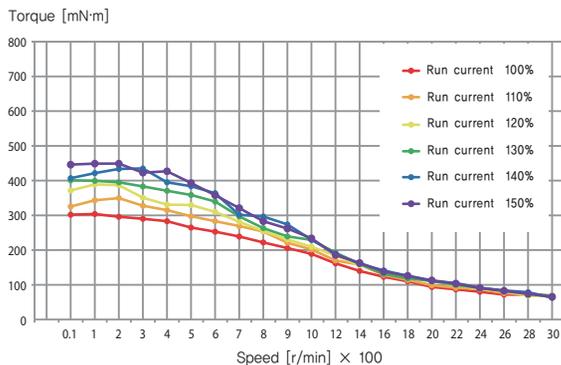


Example of the Motor Current Control according to load

5 High Torque

(Motor Current Setting)

Ezi-SERVOII can increase the motor current up to 150% by setting the Run Current by parameter. Therefore acceleration and deceleration characteristics and torque characteristics at low speed can be increased. Ezi-SERVOII can improve the torque in the low speed range by about 30%.



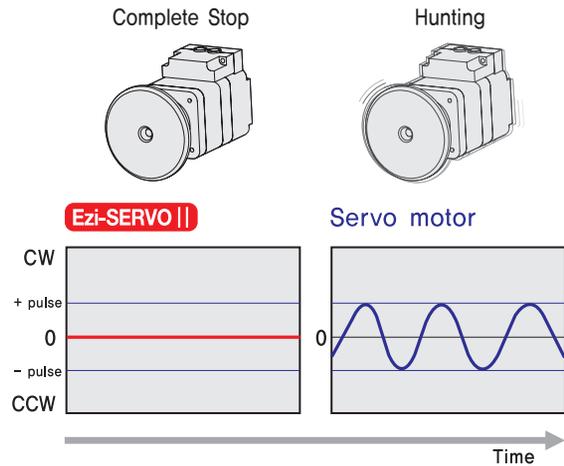
※ The torque at low speed is improved about 30%

Measured Condition : Drive = Ezi-SERVOII-PE-ALL-42L

6 No Hunting

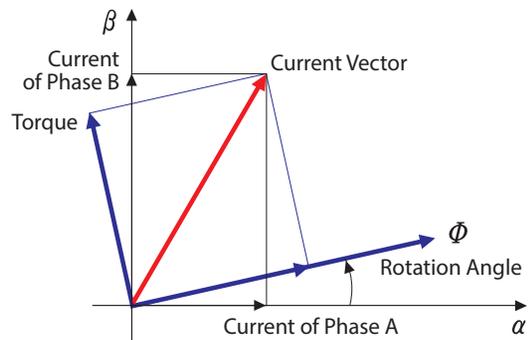
Ezi-SERVOII utilizes the unique characteristics of stepping motors and locks itself into the desired target position, preventing vibration and eliminating Null Hunt which happens to the conventional servo systems.

This feature is especially useful in applications such as vision systems in which system oscillation and vibration could be a problem.



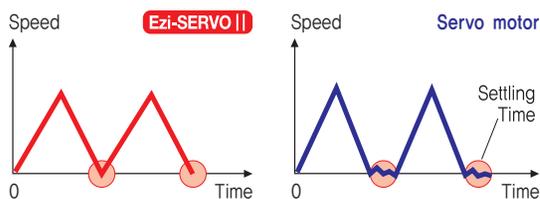
7 Smooth and Accurate Operation

Ezi-SERVOII is a high-precision servo drive, using a high-resolution encoder with 20,000 pulses/revolution. Unlike a conventional Microstep drive, the on-board high performance MCU (Micro Controller Unit) performs vector control and filtering, producing a smooth rotational control with minimum ripples.



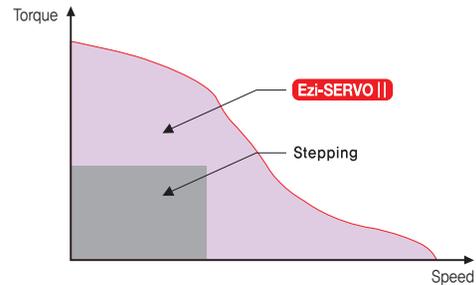
8 High Response

Similar to conventional stepping motors, Ezi-SERVO II instantly synchronizes with command pulses providing fast positional response. Ezi-SERVO II is the optimal choice when zero-speed stability and rapid motions within a short distance are required. Traditional servo motor systems have a natural delay called settling time between the command input signals and the resultant motion because of the constant monitoring of the current position.



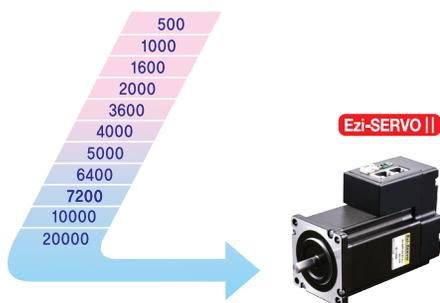
10 High Torque / Continuous Operation

Compared with common stepping motors and drives, Ezi-SERVO II motion control systems can maintain a high torque state over relatively long period of time. This means that Ezi-SERVO II continuously operates without loss of position under 100% of the load. Unlike conventional Microstep drives, Ezi-SERVO II exploits continuous high torque operation during high speed motion due to its innovative optimum current phase control.



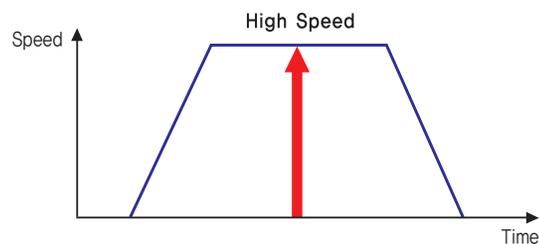
9 High Resolution

The unit of the position command can be divided precisely. (Max. 20,000 pulses/revolution)



11 High Speed

The Ezi-SERVO II operates well at high speed without the loss of synchronism or positioning error. Ezi-SERVO II's ability to monitor current position continuously enables the stepping motor to generate high torque, even under a 100% load condition.



Advantages over Open-Loop Stepping System Drive

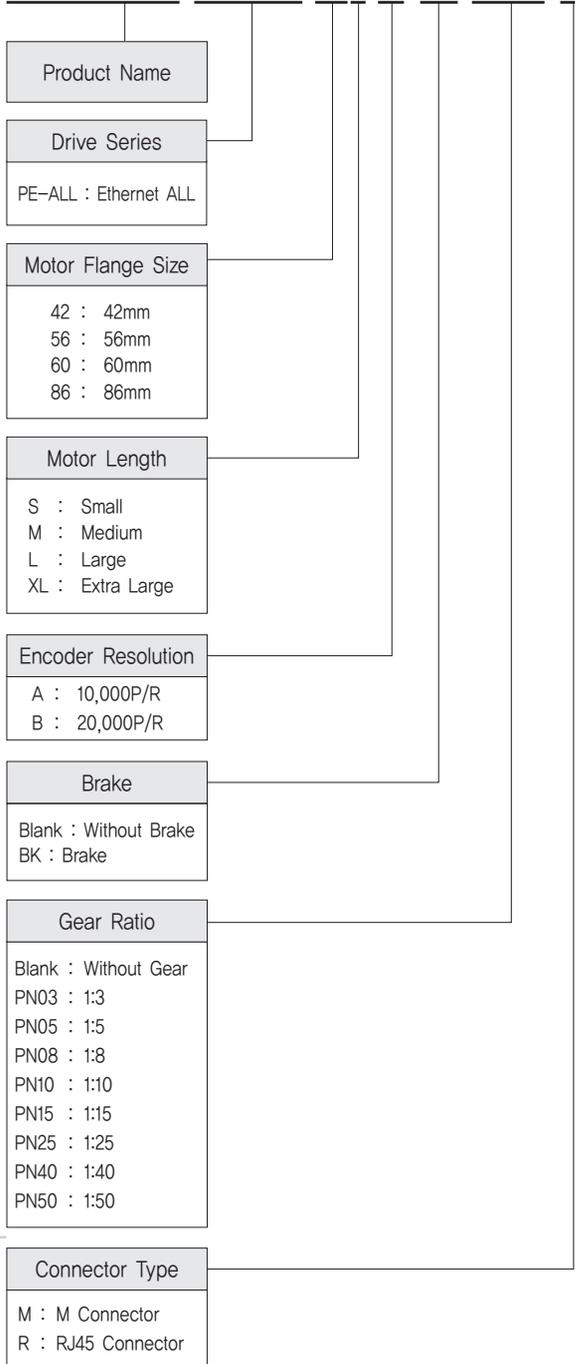
1. Positioning is reliable without loss of synchronism.
2. It can hold stable position and automatically recover to the original position even after experiencing positioning error due to external forces, such as mechanical vibration or vertical positional holding.
3. Ezi-SERVO II utilizes 100% of rated motor torque, contrary to a conventional open-loop stepping driver that can use up to 50% of the rated motor torque due to the loss of synchronism.
4. Ezi-SERVO II can operate at high speed due to load-dependent current control, while open-loop stepping drives use a constant current control at all speed ranges without considering load variations. (Max Speed : 3,000r/min)

Advantages over Servo Motor Controller

1. Tuning is not required. (Automatic gain adjustment in response to a load change)
2. It can maintain the stable holding position without oscillation after completion of positioning.
3. Positioning is fast due to the independent control by on-board MCU.
4. Operation is constant during rapid short-stroke movement due to instantaneous positioning.

● Ezi-SERVO II Plus-E ALL Part Numbering

Ezi-SERVO II -PE-ALL-56L-A-BK-PN05-M



FASTECH Ezi-SERVO II Plus-E ALL

● Standard Combination

Unit Part Number	Motor Model Number	Drive Model Number
Ezi-SERVO II -PE-ALL-42M-A-M		
Ezi-SERVO II -PE-ALL-42M-B-M		
Ezi-SERVO II -PE-ALL-42M-A-R		
Ezi-SERVO II -PE-ALL-42M-B-R		
Ezi-SERVO II -PE-ALL-42L-A-M		
Ezi-SERVO II -PE-ALL-42L-B-M		
Ezi-SERVO II -PE-ALL-42L-A-R		
Ezi-SERVO II -PE-ALL-42L-B-R		
Ezi-SERVO II -PE-ALL-42XL-A-M		
Ezi-SERVO II -PE-ALL-42XL-B-M		
Ezi-SERVO II -PE-ALL-42XL-A-R		
Ezi-SERVO II -PE-ALL-42XL-B-R		
Ezi-SERVO II -PE-ALL-56S-A-M		
Ezi-SERVO II -PE-ALL-56S-B-M		
Ezi-SERVO II -PE-ALL-56S-A-R		
Ezi-SERVO II -PE-ALL-56S-B-R		
Ezi-SERVO II -PE-ALL-56M-A-M		
Ezi-SERVO II -PE-ALL-56M-B-M		
Ezi-SERVO II -PE-ALL-56M-A-R		
Ezi-SERVO II -PE-ALL-56M-B-R		
Ezi-SERVO II -PE-ALL-56L-A-M		
Ezi-SERVO II -PE-ALL-56L-B-M		
Ezi-SERVO II -PE-ALL-56L-A-R		
Ezi-SERVO II -PE-ALL-56L-B-R		
Ezi-SERVO II -PE-ALL-60S-A-M		
Ezi-SERVO II -PE-ALL-60S-B-M		
Ezi-SERVO II -PE-ALL-60S-A-R		
Ezi-SERVO II -PE-ALL-60S-B-R		
Ezi-SERVO II -PE-ALL-60M-A-M		
Ezi-SERVO II -PE-ALL-60M-B-M		
Ezi-SERVO II -PE-ALL-60M-A-R		
Ezi-SERVO II -PE-ALL-60M-B-R		
Ezi-SERVO II -PE-ALL-60L-A-M		
Ezi-SERVO II -PE-ALL-60L-B-M		
Ezi-SERVO II -PE-ALL-60L-A-R		
Ezi-SERVO II -PE-ALL-60L-B-R		
Ezi-SERVO II -PE-ALL-86M-A-M		
Ezi-SERVO II -PE-ALL-86M-B-M		
Ezi-SERVO II -PE-ALL-86M-A-R		
Ezi-SERVO II -PE-ALL-86M-B-R		
Ezi-SERVO II -PE-ALL-86L-A-M		
Ezi-SERVO II -PE-ALL-86L-B-M		
Ezi-SERVO II -PE-ALL-86L-A-R		
Ezi-SERVO II -PE-ALL-86L-B-R		
Ezi-SERVO II -PE-ALL-86XL-A-M		
Ezi-SERVO II -PE-ALL-86XL-B-M		
Ezi-SERVO II -PE-ALL-86XL-A-R		
Ezi-SERVO II -PE-ALL-86XL-B-R		

Motor & Drive Integrated

● Combination with Brake

Unit Part Number	Motor Model Number	Drive Model Number
Ezi-SERVO II -PE-ALL-42M-A-BK-M	Motor & Drive Integrated	
Ezi-SERVO II -PE-ALL-42M-B-BK-M		
Ezi-SERVO II -PE-ALL-42M-A-BK-R		
Ezi-SERVO II -PE-ALL-42M-B-BK-R		
Ezi-SERVO II -PE-ALL-42L-A-BK-M		
Ezi-SERVO II -PE-ALL-42L-B-BK-M		
Ezi-SERVO II -PE-ALL-42L-A-BK-R		
Ezi-SERVO II -PE-ALL-42L-B-BK-R		
Ezi-SERVO II -PE-ALL-42XL-A-BK-M		
Ezi-SERVO II -PE-ALL-42XL-B-BK-M		
Ezi-SERVO II -PE-ALL-42XL-A-BK-R		
Ezi-SERVO II -PE-ALL-42XL-B-BK-R		
Ezi-SERVO II -PE-ALL-56S-A-BK-M		
Ezi-SERVO II -PE-ALL-56S-B-BK-M		
Ezi-SERVO II -PE-ALL-56S-A-BK-R		
Ezi-SERVO II -PE-ALL-56S-B-BK-R		
Ezi-SERVO II -PE-ALL-56M-A-BK-M		
Ezi-SERVO II -PE-ALL-56M-B-BK-M		
Ezi-SERVO II -PE-ALL-56M-A-BK-R		
Ezi-SERVO II -PE-ALL-56M-B-BK-R		
Ezi-SERVO II -PE-ALL-56L-A-BK-M		
Ezi-SERVO II -PE-ALL-56L-B-BK-M		
Ezi-SERVO II -PE-ALL-56L-A-BK-R		
Ezi-SERVO II -PE-ALL-56L-B-BK-R		
Ezi-SERVO II -PE-ALL-60S-A-BK-M		
Ezi-SERVO II -PE-ALL-60S-B-BK-M		
Ezi-SERVO II -PE-ALL-60S-A-BK-R		
Ezi-SERVO II -PE-ALL-60S-B-BK-R		
Ezi-SERVO II -PE-ALL-60M-A-BK-M		
Ezi-SERVO II -PE-ALL-60M-B-BK-M		
Ezi-SERVO II -PE-ALL-60M-A-BK-R		
Ezi-SERVO II -PE-ALL-60M-B-BK-R		
Ezi-SERVO II -PE-ALL-60L-A-BK-M		
Ezi-SERVO II -PE-ALL-60L-B-BK-M		
Ezi-SERVO II -PE-ALL-60L-A-BK-R		
Ezi-SERVO II -PE-ALL-60L-B-BK-R		
Ezi-SERVO II -PE-ALL-86M-A-BK-M		
Ezi-SERVO II -PE-ALL-86M-B-BK-M		
Ezi-SERVO II -PE-ALL-86M-A-BK-R		
Ezi-SERVO II -PE-ALL-86M-B-BK-R		
Ezi-SERVO II -PE-ALL-86L-A-BK-M		
Ezi-SERVO II -PE-ALL-86L-B-BK-M		
Ezi-SERVO II -PE-ALL-86L-A-BK-R		
Ezi-SERVO II -PE-ALL-86L-B-BK-R		
Ezi-SERVO II -PE-ALL-86XL-A-BK-M		
Ezi-SERVO II -PE-ALL-86XL-B-BK-M		
Ezi-SERVO II -PE-ALL-86XL-A-BK-R		
Ezi-SERVO II -PE-ALL-86XL-B-BK-R		

● Combination with Gearbox

Unit Part Number	Motor Model Number	Drive Model Number	Gear Ratio
Ezi-SERVO II -PE-ALL-42M-A-PN3-M	Motor & Drive Integrated		1:3
Ezi-SERVO II -PE-ALL-42M-B-PN3-M			
Ezi-SERVO II -PE-ALL-42M-A-PN3-R			
Ezi-SERVO II -PE-ALL-42M-B-PN3-R			
Ezi-SERVO II -PE-ALL-42M-A-PN5-M			1:5
Ezi-SERVO II -PE-ALL-42M-B-PN5-M			
Ezi-SERVO II -PE-ALL-42M-A-PN5-R			
Ezi-SERVO II -PE-ALL-42M-B-PN5-R			
Ezi-SERVO II -PE-ALL-42M-A-PN8-M			1:8
Ezi-SERVO II -PE-ALL-42M-B-PN8-M			
Ezi-SERVO II -PE-ALL-42M-A-PN8-R			
Ezi-SERVO II -PE-ALL-42M-B-PN8-R			
Ezi-SERVO II -PE-ALL-42M-A-PN10-M			1:10
Ezi-SERVO II -PE-ALL-42M-B-PN10-M			
Ezi-SERVO II -PE-ALL-42M-A-PN10-R			
Ezi-SERVO II -PE-ALL-42M-B-PN10-R			
Ezi-SERVO II -PE-ALL-42M-A-PN15-M			1:15
Ezi-SERVO II -PE-ALL-42M-B-PN15-M			
Ezi-SERVO II -PE-ALL-42M-A-PN15-R			
Ezi-SERVO II -PE-ALL-42M-B-PN15-R			
Ezi-SERVO II -PE-ALL-42M-A-PN25-M			1:25
Ezi-SERVO II -PE-ALL-42M-B-PN25-M			
Ezi-SERVO II -PE-ALL-42M-A-PN25-R			
Ezi-SERVO II -PE-ALL-42M-B-PN25-R			
Ezi-SERVO II -PE-ALL-42M-A-PN40-M			1:40
Ezi-SERVO II -PE-ALL-42M-B-PN40-M			
Ezi-SERVO II -PE-ALL-42M-A-PN40-R			
Ezi-SERVO II -PE-ALL-42M-B-PN40-R			
Ezi-SERVO II -PE-ALL-42M-A-PN50-M			1:50
Ezi-SERVO II -PE-ALL-42M-B-PN50-M			
Ezi-SERVO II -PE-ALL-42M-A-PN50-R			
Ezi-SERVO II -PE-ALL-42M-B-PN50-R			
Ezi-SERVO II -PE-ALL-42L-A-PN3-M			1:3
Ezi-SERVO II -PE-ALL-42L-B-PN3-M			
Ezi-SERVO II -PE-ALL-42L-A-PN3-R			
Ezi-SERVO II -PE-ALL-42L-B-PN3-R			
Ezi-SERVO II -PE-ALL-42L-A-PN5-M			1:5
Ezi-SERVO II -PE-ALL-42L-B-PN5-M			
Ezi-SERVO II -PE-ALL-42L-A-PN5-R			
Ezi-SERVO II -PE-ALL-42L-B-PN5-R			
Ezi-SERVO II -PE-ALL-42L-A-PN8-M			1:8
Ezi-SERVO II -PE-ALL-42L-B-PN8-M			
Ezi-SERVO II -PE-ALL-42L-A-PN8-R			
Ezi-SERVO II -PE-ALL-42L-B-PN8-R			
Ezi-SERVO II -PE-ALL-42L-A-PN10-M			1:10
Ezi-SERVO II -PE-ALL-42L-B-PN10-M			
Ezi-SERVO II -PE-ALL-42L-A-PN10-R			
Ezi-SERVO II -PE-ALL-42L-B-PN10-R			
Ezi-SERVO II -PE-ALL-42L-A-PN15-M			1:15
Ezi-SERVO II -PE-ALL-42L-B-PN15-M			
Ezi-SERVO II -PE-ALL-42L-A-PN15-R			
Ezi-SERVO II -PE-ALL-42L-B-PN15-R			
Ezi-SERVO II -PE-ALL-42L-A-PN25-M	1:25		
Ezi-SERVO II -PE-ALL-42L-B-PN25-M			
Ezi-SERVO II -PE-ALL-42L-A-PN25-R			
Ezi-SERVO II -PE-ALL-42L-B-PN25-R			
Ezi-SERVO II -PE-ALL-42L-A-PN40-M	1:40		
Ezi-SERVO II -PE-ALL-42L-B-PN40-M			
Ezi-SERVO II -PE-ALL-42L-A-PN40-R			
Ezi-SERVO II -PE-ALL-42L-B-PN40-R			
Ezi-SERVO II -PE-ALL-42L-A-PN50-M	1:50		
Ezi-SERVO II -PE-ALL-42L-B-PN50-M			
Ezi-SERVO II -PE-ALL-42L-A-PN50-R			
Ezi-SERVO II -PE-ALL-42L-B-PN50-R			

● Combination with Gearbox

FASTECH Ezi-SERVOII Plus-E ALL



Unit Part Number	Motor Model Number	Drive Model Number	Gear Ratio
Ezi-SERVO II -PE-ALL-42XL-A-PN3-M	Motor & Drive Integrated		1:3
Ezi-SERVO II -PE-ALL-42XL-B-PN3-M			
Ezi-SERVO II -PE-ALL-42XL-A-PN3-R			
Ezi-SERVO II -PE-ALL-42XL-B-PN3-R			1:5
Ezi-SERVO II -PE-ALL-42XL-A-PN5-M			
Ezi-SERVO II -PE-ALL-42XL-B-PN5-M			
Ezi-SERVO II -PE-ALL-42XL-A-PN5-R			1:8
Ezi-SERVO II -PE-ALL-42XL-B-PN5-R			
Ezi-SERVO II -PE-ALL-42XL-A-PN8-M			
Ezi-SERVO II -PE-ALL-42XL-B-PN8-M			1:10
Ezi-SERVO II -PE-ALL-42XL-A-PN8-R			
Ezi-SERVO II -PE-ALL-42XL-B-PN8-R			
Ezi-SERVO II -PE-ALL-42XL-A-PN10-M			1:15
Ezi-SERVO II -PE-ALL-42XL-B-PN10-M			
Ezi-SERVO II -PE-ALL-42XL-A-PN10-R			
Ezi-SERVO II -PE-ALL-42XL-B-PN10-R			1:25
Ezi-SERVO II -PE-ALL-42XL-A-PN15-M			
Ezi-SERVO II -PE-ALL-42XL-B-PN15-M			
Ezi-SERVO II -PE-ALL-42XL-A-PN15-R			1:40
Ezi-SERVO II -PE-ALL-42XL-B-PN15-R			
Ezi-SERVO II -PE-ALL-42XL-A-PN25-M			
Ezi-SERVO II -PE-ALL-42XL-B-PN25-M			1:50
Ezi-SERVO II -PE-ALL-42XL-A-PN25-R			
Ezi-SERVO II -PE-ALL-42XL-B-PN25-R			
Ezi-SERVO II -PE-ALL-42XL-A-PN40-M			1:3
Ezi-SERVO II -PE-ALL-42XL-B-PN40-M			
Ezi-SERVO II -PE-ALL-42XL-A-PN40-R			
Ezi-SERVO II -PE-ALL-42XL-B-PN40-R			1:5
Ezi-SERVO II -PE-ALL-42XL-A-PN50-M			
Ezi-SERVO II -PE-ALL-42XL-B-PN50-M			
Ezi-SERVO II -PE-ALL-42XL-A-PN50-R			1:8
Ezi-SERVO II -PE-ALL-42XL-B-PN50-R			
Ezi-SERVO II -PE-ALL-56S-A-PN3-M			
Ezi-SERVO II -PE-ALL-56S-B-PN3-M			1:5
Ezi-SERVO II -PE-ALL-56S-A-PN3-R			
Ezi-SERVO II -PE-ALL-56S-B-PN3-R			
Ezi-SERVO II -PE-ALL-56S-A-PN5-M			1:8
Ezi-SERVO II -PE-ALL-56S-B-PN5-M			
Ezi-SERVO II -PE-ALL-56S-A-PN5-R			
Ezi-SERVO II -PE-ALL-56S-B-PN5-R			1:10
Ezi-SERVO II -PE-ALL-56S-A-PN8-M			
Ezi-SERVO II -PE-ALL-56S-B-PN8-M			
Ezi-SERVO II -PE-ALL-56S-A-PN8-R			1:15
Ezi-SERVO II -PE-ALL-56S-B-PN8-R			
Ezi-SERVO II -PE-ALL-56S-A-PN10-M			
Ezi-SERVO II -PE-ALL-56S-B-PN10-M			1:25
Ezi-SERVO II -PE-ALL-56S-A-PN10-R			
Ezi-SERVO II -PE-ALL-56S-B-PN10-R			
Ezi-SERVO II -PE-ALL-56S-A-PN15-M			1:40
Ezi-SERVO II -PE-ALL-56S-B-PN15-M			
Ezi-SERVO II -PE-ALL-56S-A-PN15-R			
Ezi-SERVO II -PE-ALL-56S-B-PN15-R	1:50		
Ezi-SERVO II -PE-ALL-56S-A-PN25-M			
Ezi-SERVO II -PE-ALL-56S-B-PN25-M			
Ezi-SERVO II -PE-ALL-56S-A-PN25-R	1:3		
Ezi-SERVO II -PE-ALL-56S-B-PN25-R			
Ezi-SERVO II -PE-ALL-56S-A-PN40-M			
Ezi-SERVO II -PE-ALL-56S-B-PN40-M	1:5		
Ezi-SERVO II -PE-ALL-56S-A-PN40-R			
Ezi-SERVO II -PE-ALL-56S-B-PN40-R			
Ezi-SERVO II -PE-ALL-56S-A-PN50-M	1:8		
Ezi-SERVO II -PE-ALL-56S-B-PN50-M			
Ezi-SERVO II -PE-ALL-56S-A-PN50-R			
Ezi-SERVO II -PE-ALL-56S-B-PN50-R	1:10		
Ezi-SERVO II -PE-ALL-56S-A-PN50-R			
Ezi-SERVO II -PE-ALL-56S-B-PN50-R			

Unit Part Number	Motor Model Number	Drive Model Number	Gear Ratio
Ezi-SERVO II -PE-ALL-56M-A-PN3-M	Motor & Drive Integrated		1:3
Ezi-SERVO II -PE-ALL-56M-B-PN3-M			
Ezi-SERVO II -PE-ALL-56M-A-PN3-R			
Ezi-SERVO II -PE-ALL-56M-B-PN3-R			1:5
Ezi-SERVO II -PE-ALL-56M-A-PN5-M			
Ezi-SERVO II -PE-ALL-56M-B-PN5-M			
Ezi-SERVO II -PE-ALL-56M-A-PN5-R			1:8
Ezi-SERVO II -PE-ALL-56M-B-PN5-R			
Ezi-SERVO II -PE-ALL-56M-A-PN8-M			
Ezi-SERVO II -PE-ALL-56M-B-PN8-M			1:10
Ezi-SERVO II -PE-ALL-56M-A-PN8-R			
Ezi-SERVO II -PE-ALL-56M-B-PN8-R			
Ezi-SERVO II -PE-ALL-56M-A-PN10-M			1:15
Ezi-SERVO II -PE-ALL-56M-B-PN10-M			
Ezi-SERVO II -PE-ALL-56M-A-PN10-R			
Ezi-SERVO II -PE-ALL-56M-B-PN10-R			1:25
Ezi-SERVO II -PE-ALL-56M-A-PN15-M			
Ezi-SERVO II -PE-ALL-56M-B-PN15-M			
Ezi-SERVO II -PE-ALL-56M-A-PN15-R			1:40
Ezi-SERVO II -PE-ALL-56M-B-PN15-R			
Ezi-SERVO II -PE-ALL-56M-A-PN25-M			
Ezi-SERVO II -PE-ALL-56M-B-PN25-M			1:50
Ezi-SERVO II -PE-ALL-56M-A-PN25-R			
Ezi-SERVO II -PE-ALL-56M-B-PN25-R			
Ezi-SERVO II -PE-ALL-56M-A-PN40-M			1:3
Ezi-SERVO II -PE-ALL-56M-B-PN40-M			
Ezi-SERVO II -PE-ALL-56M-A-PN40-R			
Ezi-SERVO II -PE-ALL-56M-B-PN40-R			1:5
Ezi-SERVO II -PE-ALL-56M-A-PN50-M			
Ezi-SERVO II -PE-ALL-56M-B-PN50-M			
Ezi-SERVO II -PE-ALL-56M-A-PN50-R			1:8
Ezi-SERVO II -PE-ALL-56M-B-PN50-R			
Ezi-SERVO II -PE-ALL-56L-A-PN3-M			
Ezi-SERVO II -PE-ALL-56L-B-PN3-M			1:5
Ezi-SERVO II -PE-ALL-56L-A-PN3-R			
Ezi-SERVO II -PE-ALL-56L-B-PN3-R			
Ezi-SERVO II -PE-ALL-56L-A-PN5-M			1:8
Ezi-SERVO II -PE-ALL-56L-B-PN5-M			
Ezi-SERVO II -PE-ALL-56L-A-PN5-R			
Ezi-SERVO II -PE-ALL-56L-B-PN5-R			1:10
Ezi-SERVO II -PE-ALL-56L-A-PN8-M			
Ezi-SERVO II -PE-ALL-56L-B-PN8-M			
Ezi-SERVO II -PE-ALL-56L-A-PN8-R			1:15
Ezi-SERVO II -PE-ALL-56L-B-PN8-R			
Ezi-SERVO II -PE-ALL-56L-A-PN10-M			
Ezi-SERVO II -PE-ALL-56L-B-PN10-M			1:25
Ezi-SERVO II -PE-ALL-56L-A-PN10-R			
Ezi-SERVO II -PE-ALL-56L-B-PN10-R			
Ezi-SERVO II -PE-ALL-56L-A-PN15-M			1:40
Ezi-SERVO II -PE-ALL-56L-B-PN15-M			
Ezi-SERVO II -PE-ALL-56L-A-PN15-R			
Ezi-SERVO II -PE-ALL-56L-B-PN15-R	1:50		
Ezi-SERVO II -PE-ALL-56L-A-PN25-M			
Ezi-SERVO II -PE-ALL-56L-B-PN25-M			
Ezi-SERVO II -PE-ALL-56L-A-PN25-R	1:3		
Ezi-SERVO II -PE-ALL-56L-B-PN25-R			
Ezi-SERVO II -PE-ALL-56L-A-PN40-M			
Ezi-SERVO II -PE-ALL-56L-B-PN40-M	1:5		
Ezi-SERVO II -PE-ALL-56L-A-PN40-R			
Ezi-SERVO II -PE-ALL-56L-B-PN40-R			
Ezi-SERVO II -PE-ALL-56L-A-PN50-M	1:8		
Ezi-SERVO II -PE-ALL-56L-B-PN50-M			
Ezi-SERVO II -PE-ALL-56L-A-PN50-R			
Ezi-SERVO II -PE-ALL-56L-B-PN50-R	1:10		
Ezi-SERVO II -PE-ALL-56L-A-PN50-R			
Ezi-SERVO II -PE-ALL-56L-B-PN50-R			

● Combination with Gearbox

FASTECH Ezi-SERVOII Plus-E ALL

Unit Part Number	Motor Model Number	Drive Model Number	Gear Ratio
Ezi-SERVO II -PE-ALL-86L-A-PN3-M	Motor & Drive Integrated		
Ezi-SERVO II -PE-ALL-86L-B-PN3-M			
Ezi-SERVO II -PE-ALL-86L-A-PN3-R			
Ezi-SERVO II -PE-ALL-86L-B-PN3-R			
Ezi-SERVO II -PE-ALL-86L-A-PN5-M			
Ezi-SERVO II -PE-ALL-86L-B-PN5-M			
Ezi-SERVO II -PE-ALL-86L-A-PN5-R			
Ezi-SERVO II -PE-ALL-86L-B-PN5-R			
Ezi-SERVO II -PE-ALL-86L-A-PN8-M			
Ezi-SERVO II -PE-ALL-86L-B-PN8-M			
Ezi-SERVO II -PE-ALL-86L-A-PN8-R			
Ezi-SERVO II -PE-ALL-86L-B-PN8-R			
Ezi-SERVO II -PE-ALL-86L-A-PN10-M			
Ezi-SERVO II -PE-ALL-86L-B-PN10-M			
Ezi-SERVO II -PE-ALL-86L-A-PN10-R			
Ezi-SERVO II -PE-ALL-86L-B-PN10-R			
Ezi-SERVO II -PE-ALL-86L-A-PN15-M			
Ezi-SERVO II -PE-ALL-86L-B-PN15-M			
Ezi-SERVO II -PE-ALL-86L-A-PN15-R			
Ezi-SERVO II -PE-ALL-86L-B-PN15-R			
Ezi-SERVO II -PE-ALL-86L-A-PN25-M			
Ezi-SERVO II -PE-ALL-86L-B-PN25-M			
Ezi-SERVO II -PE-ALL-86L-A-PN25-R			
Ezi-SERVO II -PE-ALL-86L-B-PN25-R			
Ezi-SERVO II -PE-ALL-86L-A-PN40-M			
Ezi-SERVO II -PE-ALL-86L-B-PN40-M			
Ezi-SERVO II -PE-ALL-86L-A-PN40-R			
Ezi-SERVO II -PE-ALL-86L-B-PN40-R			
Ezi-SERVO II -PE-ALL-86L-A-PN50-M			
Ezi-SERVO II -PE-ALL-86L-B-PN50-M			
Ezi-SERVO II -PE-ALL-86L-A-PN50-R			
Ezi-SERVO II -PE-ALL-86L-B-PN50-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN3-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN3-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN3-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN3-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN5-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN5-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN5-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN5-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN8-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN8-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN8-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN8-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN10-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN10-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN10-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN10-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN15-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN15-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN15-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN15-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN25-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN25-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN25-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN25-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN40-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN40-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN40-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN40-R			
Ezi-SERVO II -PE-ALL-86XL-A-PN50-M			
Ezi-SERVO II -PE-ALL-86XL-B-PN50-M			
Ezi-SERVO II -PE-ALL-86XL-A-PN50-R			
Ezi-SERVO II -PE-ALL-86XL-B-PN50-R			

● Specifications of Drive

Model	Ezi-SERVO II -PE-ALL -42 series	Ezi-SERVO II -PE-ALL -56 series	Ezi-SERVO II -PE-ALL -60 series	Ezi-SERVO II -PE-ALL -86 series							
Input Voltage	DC24V±10%			DC40~70V							
Control Method	Closed-loop control with 32 bit MCU										
Current Consumption	Max. 500mA (Except motor current)										
Operating Condition	Ambient Temperature	· In Use: 0~50°C · In Storage: -20~70°C									
	Humidity	· In Use: 35~85% RH (Non-Condensing) · In Storage: 10~90% RH (Non-Condensing)									
	Vib. Resist.	0.5g									
Function	Rotation Speed	0~3,000r/min *1									
	Resolution	Encoder Resolution [P/R]	Configurable Resolution [P/R]								
		10,000	500	1,000	1,600	2,000	3,600	5,000	6,400	7,200	10,000
		20,000	500	1,000	1,600	2,000	3,600	5,000	6,400	7,200	10,000
	(Selectable by parameter)										
	Error Types	Over Current Error, Over Speed Error, Position Tracking Error, Over Load Error, Over Temperature Error, Over Regenerated Voltage Error, Motor Connect Error, Encoder Connect Error, In-Position Error, ROM Error, Position Overflow Error									
	In-Position Selection	0~63 (Set by parameter)									
Position Gain Selection	0~63 (Set by parameter)										
Rotational Direction	CW/CCW (Set by parameter)										
I/O Signal	Input Signals	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN), 3 programmable inputs (Photocoupler Input)									
	Output Signals	1 dedicated output (Compare Out), 1 programmable output (Photocoupler Output), 1 Brake output									
Communication Interface	<ul style="list-style-type: none"> · Ethernet standard: 10BASE-T, 100BASE-TX · Full-Duplex · Dual port Ethernet switch embedded 										
Position Control	<ul style="list-style-type: none"> · Incremental mode / Absolute mode Data Range: -134,217,728 to +134,217,727 [pulse] · Operating speed: Max. 3,000 r/min 										
Return to Origin	Origin Sensor, Z phase, ±Limit sensor, Torque										
GUI	User Interface Program within Windows										
Library	Motion Library (API) for windows 7/8/10										

*1 : Up to the resolution of 10,000P/R, maximum speed can be reached by 3,000r/min and with the resolution more than 10,000P/R, maximum speed shall be reduced accordingly.

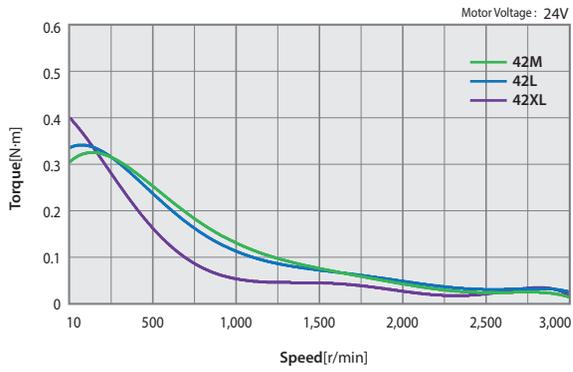
● Specifications of Motor

MODEL			Ezi-SERVO II-PE-ALL-42 series			Ezi-SERVO II-PE-ALL-56 series			
			UNIT	42M	42L	42XL	56S	56M	56L
DRIVE METHOD			-	Bipolar					
NUMBER OF PHASES			-	2 Phase					
CURRENT per PHASE			A/Phase	1,2	1,2	1,2	3,0	3,0	3,0
MAXIMUM HOLDING TORQUE			N·m	0,44	0,5	0,65	0,64	1,0	1,5
ROTOR INERTIA			g·cm ²	54	77	114	180	280	520
WEIGHTS			kg	0,440	0,520	0,660	0,760	0,920	1,360
LENGTH(L)			mm	40	48	60	46	55	80
PERMISSIBLE RADIAL LOAD	DIS-TANCE FROM END OF SHAFT	3mm	N	22	22	22	52	52	52
		8mm		26	26	26	65	65	65
		13mm		33	33	33	85	85	85
		18mm		46	46	46	123	123	123
PERMISSIBLE AXIAL LOAD			N	Lower then Motor Unit's Weight					
INSULATION RESISTANCE			MΩ	Min, 100(When measured with a DC500V insulation resistance meter)					
INSULATION CLASS			-	CLASS B(130°C)					
OPERATING TEMPERATURE			°C	0 ~ 55					

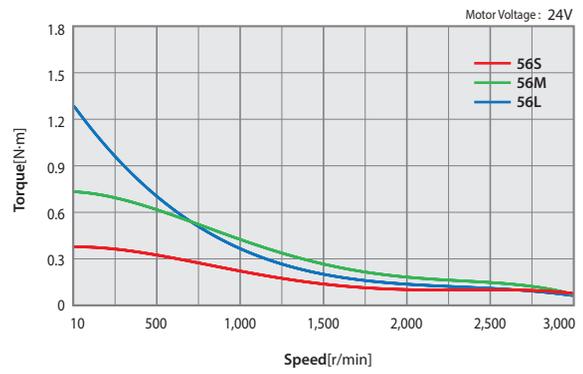
MODEL			Ezi-SERVO II-PE-ALL-60 series			Ezi-SERVO II-PE-ALL-86 series			
			UNIT	60S	60M	60L	86M	86L	86XL
DRIVE METHOD			-	Bipolar					
NUMBER OF PHASES			-	2 Phase					
CURRENT per PHASE			A/Phase	4,0	4,0	4,0	6,0	6,0	6,0
MAXIMUM HOLDING TORQUE			N·m	0,88	1,28	2,4	4,5	8,5	12
ROTOR INERTIA			g·cm ²	240	490	690	1800	3600	5400
WEIGHTS			kg	0,840	0,980	1,540	2,682	4,226	5,756
LENGTH(L)			mm	47	56	85	78	117	155
PERMISSIBLE RADIAL LOAD	DIS-TANCE FROM END OF SHAFT	3mm	N	70	70	70	270	270	270
		8mm		87	87	87	300	300	300
		13mm		114	114	114	350	350	350
		18mm		165	165	165	400	400	400
PERMISSIBLE AXIAL LOAD			N	Lower then Motor Unit's Weight					
INSULATION RESISTANCE			MΩ	Min, 100(When measured with a DC500V insulation resistance meter)					
INSULATION CLASS			-	CLASS B(130°C)					
OPERATING TEMPERATURE			°C	0 ~ 55					

Torque Characteristics of Motor

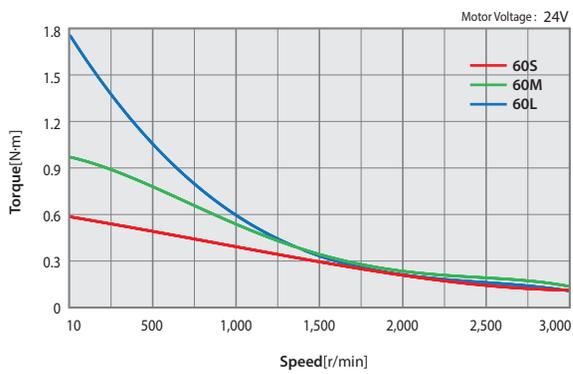
Ezi-SERVOII-PE-ALL-42 series



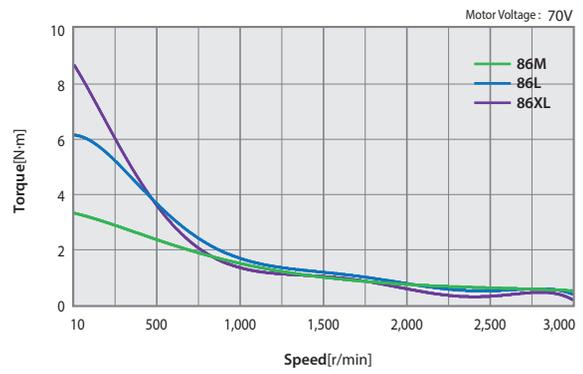
Ezi-SERVOII-PE-ALL-56 series



Ezi-SERVOII-PE-ALL-60 series

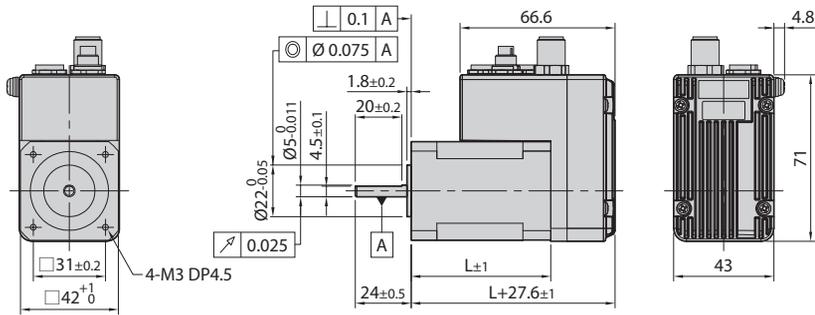


Ezi-SERVOII-PE-ALL-86 series



● Dimensions of Motor [mm]

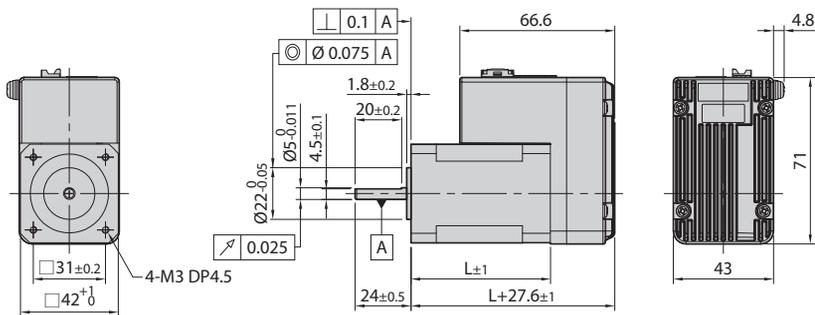
◆ M Type



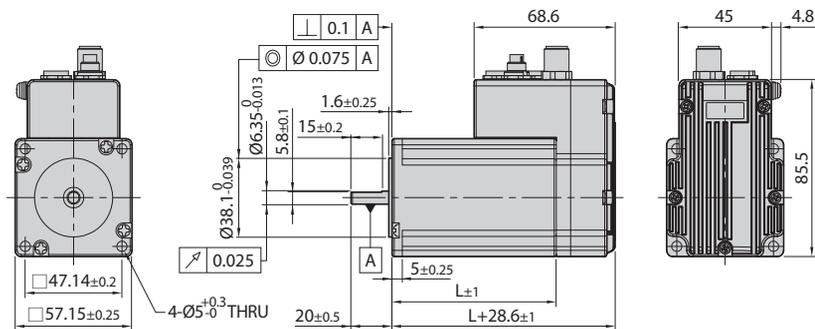
42mm

Model name	Length(L)
42M	40
42L	48
42XL	60

◆ R Type



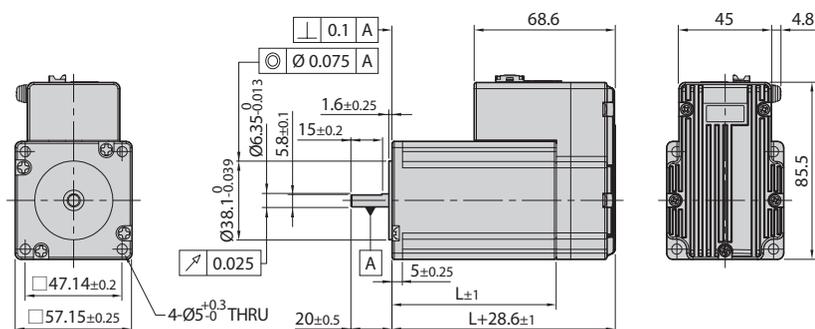
◆ M Type



56mm

Model name	Length(L)
56S	46
56M	55
56L	80

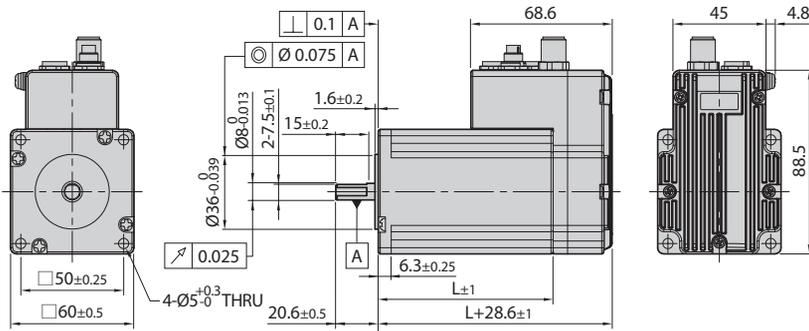
◆ R Type



※ There are 2 kinds size of front shaft diameter for Ezi-SERVOII-PE-ALL-56 series as Ø6.35 and Ø8.0

● Dimensions of Motor [mm]

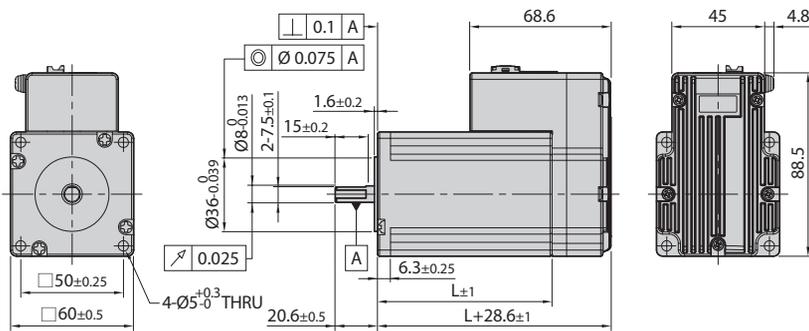
◆ M Type



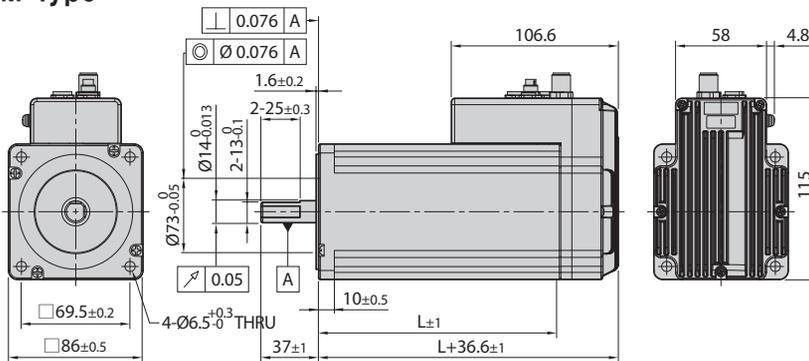
60mm

Model name	Length(L)
60S	47
60M	56
60L	85

◆ R Type



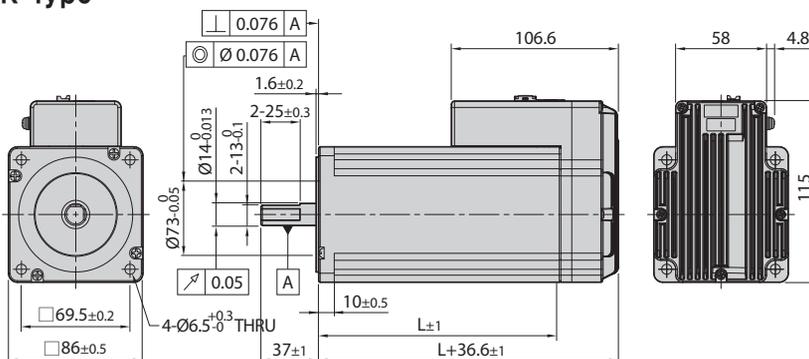
◆ M Type



86mm

Model name	Length(L)
86M	78
86L	117
86XL	155

◆ R Type



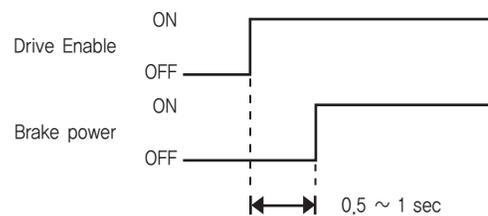
● Specifications of Motor with Brake

Unit Part Number	Motor Model Number	Electromagnetic Brake					Motor Unit Weight [kg]	Permissible Radial Load [N]				Permissible Axial Load [N]
		Type	Voltage Input [V]	Rated Current [A]	Power Consumption [W]	Static Friction Torque [N·m]		Motor Model Number [mm]				
								3	8	13	18	
Ezi-SERVO II -PE-ALL-42M-■-BK-▲	Motor & Drive Integrated	Non-excitation run Type	DC24V ±10%	0.2	5	0.2	0.700	22	26	33	46	Must be Lower than Motor Unit Weight
Ezi-SERVO II -PE-ALL-42L-■-BK-▲							0.780					
Ezi-SERVO II -PE-ALL-42XL-■-BK-▲							0.920					
Ezi-SERVO II -PE-ALL-56S-■-BK-▲				0.27	6.6	0.7	1.180	52	65	85	123	
Ezi-SERVO II -PE-ALL-56M-■-BK-▲							1.340					
Ezi-SERVO II -PE-ALL-56L-■-BK-▲							1.780					
Ezi-SERVO II -PE-ALL-60S-■-BK-▲							1.280					
Ezi-SERVO II -PE-ALL-60M-■-BK-▲							1.420					
Ezi-SERVO II -PE-ALL-60L-■-BK-▲				1.980								
Ezi-SERVO II -PE-ALL-86M-■-BK-▲				0.54	13	4	3.982	270	300	350	400	
Ezi-SERVO II -PE-ALL-86L-■-BK-▲							5.526					
Ezi-SERVO II -PE-ALL-86XL-■-BK-▲							7.056					

- * The code of encoder resolution will be marked in "■".
- * The code of connector type will be marked in "▲".
- * Electronic Brake cannot be used for braking, Position hold purpose only when power OFF.
- * The weight means Motor Unit Weight including Motor and Electronic Brake.
- * Motor specification and torque characteristic are same as Standard Motor.
- * An external power supply (DC24V) is not required when installing the Electric Brake on the 86mm motor drive.

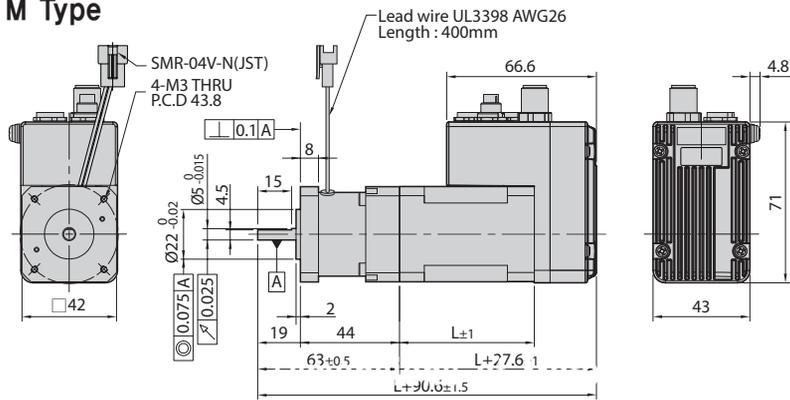
* Brake Operation Timing Chart

Ezi-SERVO II Plus-E ALL controls Brake by Drive automatically. Please refer to below Timing Chart when Brake is controlled by the upper controller other than using Ezi-SERVO II Plus-E ALL Brake control. Otherwise, Drive might malfunction and loads might fall down. Also, please do not operate Brake during motor operation to prevent damage.



● Dimensions of Motor with Brake [mm]

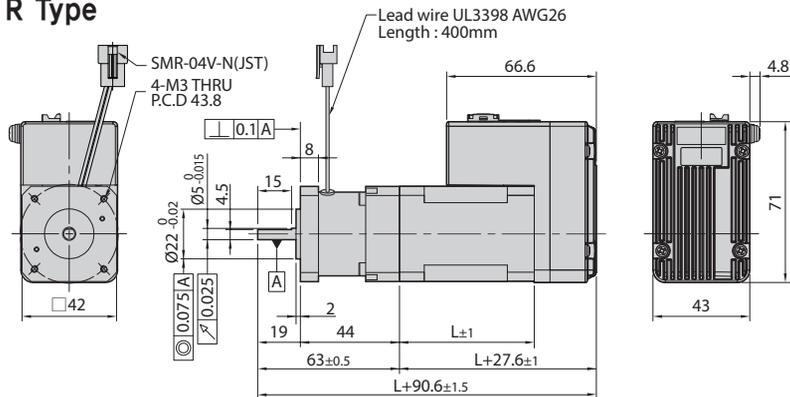
◆ M Type



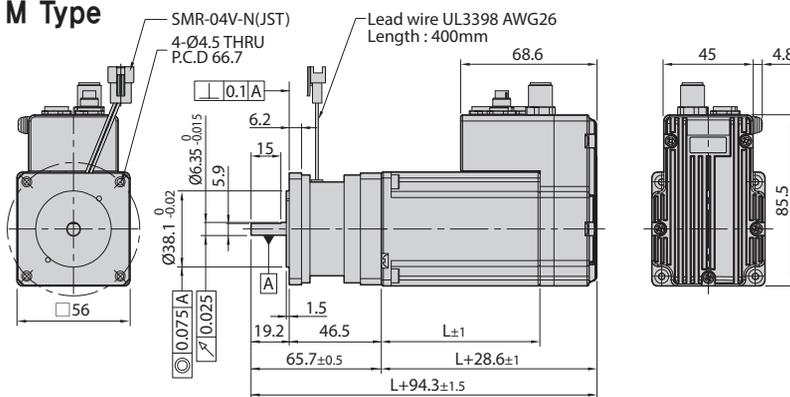
42mm

Model name	Length(L)
42M	40
42L	48
42XL	60

◆ R Type



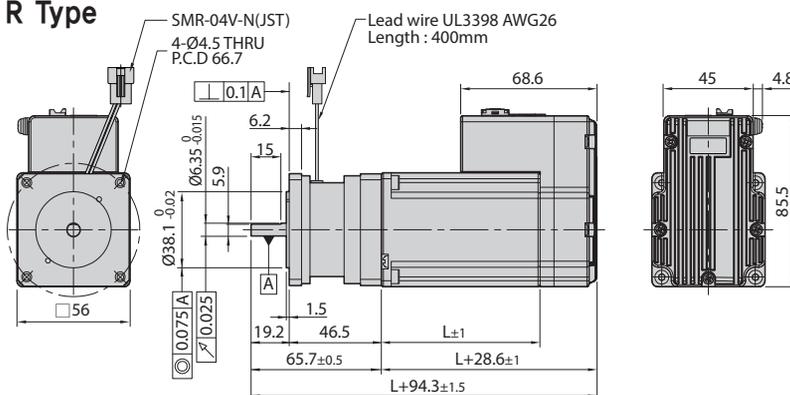
◆ M Type



56mm

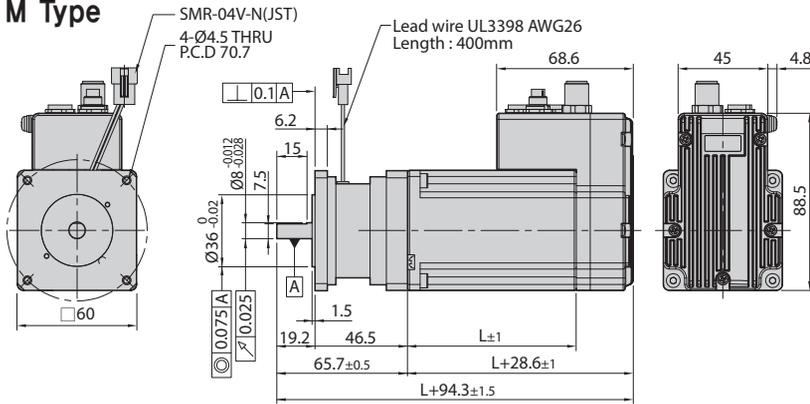
Model name	Length(L)
56S	46
56M	55
56L	80

◆ R Type



● Dimensions of Motor with Brake [mm]

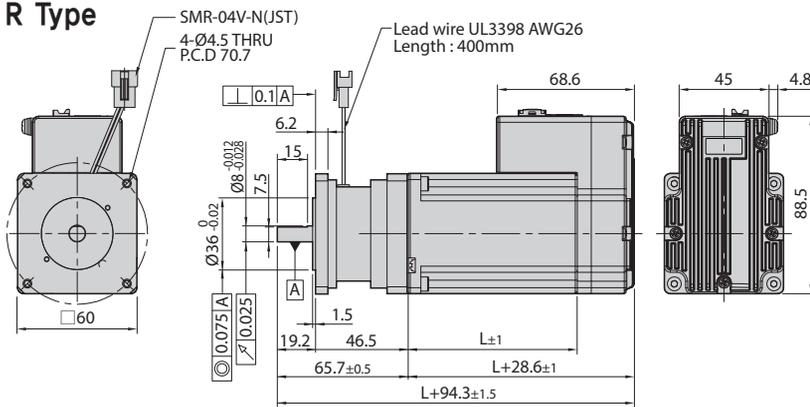
◆ M Type



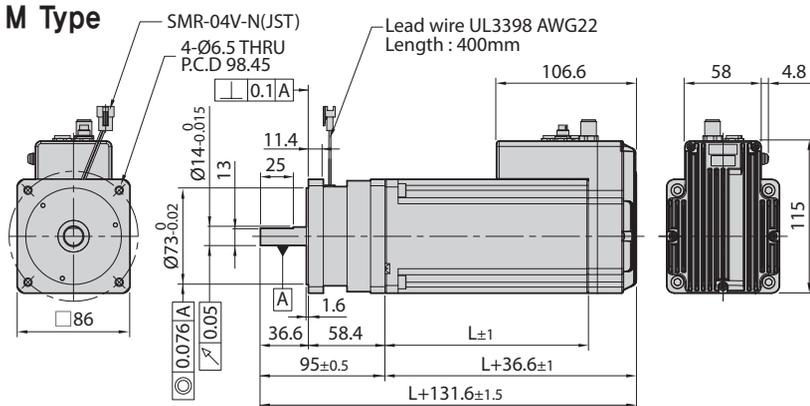
60mm

Model name	Length(L)
60S	47
60M	56
60L	85

◆ R Type



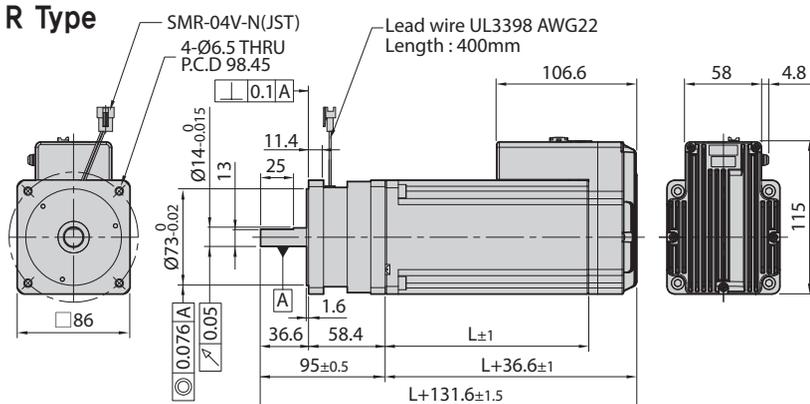
◆ M Type



86mm

Model name	Length(L)
86M	78
86L	117
86XL	155

◆ R Type



● How to Read Specifications

Unit Part Number	① Maximum Holding Torque [N·m]	② Rotor Inertia Moment [kg·m ²]	③ Backlash [arc-min]	④ Angle Transmission Error [arc-min]	⑤ Gear Ratio	⑥ Resolution (10,000 P/R Standard)	⑦ Permissible Torque [N·m]	⑧ Instantaneous Maximum Torque [N·m]	⑨ Permissible Speed Range [r/min]	⑩ Unit Weight [kg]	⑪ Permissible Radial Load (At Center of Axis) [N]	⑫ Permissible Axial Load [N]
Ezi-SERVO II -PE-ALL-42M-■-PN3-▲	0,85	54x10 ⁻⁷	3	5	3	0,012°	6	12	0~1000	0,90	240	270
Ezi-SERVO II -PE-ALL-42M-■-PN5-▲	1,42				5	0,0072°	9	18	0~600		290	330
Ezi-SERVO II -PE-ALL-42M-■-PN8-▲	2,28				8	0,0045°	9	18	0~375		340	410
Ezi-SERVO II -PE-ALL-42M-■-PN10-▲	2,85				10	0,0036°	6	12	0~300		360	450
Ezi-SERVO II -PE-ALL-42M-■-PN15-▲	4,14		5	7	15	0,0024°	6	12	0~200	1,06	410	540
Ezi-SERVO II -PE-ALL-42M-■-PN25-▲	6,90				25	0,00144°	9	18	0~120		490	640
Ezi-SERVO II -PE-ALL-42M-■-PN40-▲	9,00				40	0,0009°	9	18	0~75		570	640
Ezi-SERVO II -PE-ALL-42M-■-PN50-▲	9,00				50	0,00072°	9	18	0~60		620	640

Description of Specification Items

No.	Item	Description
①	Maximum Holding Torque	This is the maximum torque that can be exerted through the gearbox when the motor is stopped. (Based on 100% of stop current) Use the torque below the permissible torque of the gearbox.
②	Rotor Inertia Moment	It is the value of the moment of inertia of the motor.
③	Backlash	It is the gap between the gear and the gear, and it is the angle at which the gearbox shaft moves without external force when stopped.
④	Angle Transmission Error	This is the transmission characteristic of the gearbox, which means the difference between the theoretical rotation angle and the actual rotation angle of the output shaft.
⑤	Gear Ratio	It is the value obtained by dividing the number of output rotation by the number of input rotation.
⑥	Resolution	This is the angle at which the gearbox output shaft moves when the motor is driven by 1 pulse.
⑦	Permissible Torque	It refers to the maximum value of the torque that can be continuously applied to the output shaft of the gearbox during constant speed operation. (When the input rotation speed is 3,000r/min and the lifetime of the motor becomes 20,000 hours)
⑧	Instantaneous Maximum Torque	This is the maximum torque allowed to the output shaft of the gearbox during acceleration/deceleration.
⑨	Permissible Speed Range	It is the range of rotation speed based on the output shaft of the gearbox.
⑩	Unit Weight	It is the sum of the weight of the gearbox and the motor.
⑪	Permissible Radial Load	It is the maximum value of the load applied in the direction perpendicular to the gearbox output shaft.
⑫	Permissible Axial Load	It is the maximum value of the load applied in the axial direction to the gearbox output shaft.

● Specifications of Motor with Gearbox

42mm

Unit Part Number	Maximum Holding Torque [N·m]	Rotor Inertia Moment [kg·m ²]	Backlash [arc-min]	Angle Transmission Error [arc-min]	Gear Ratio	Resolution (10,000 P/R Standard)	Permissible Torque [N·m]	Instantaneous Maximum Torque [N·m]	Permissible Speed Range [r/min]	Unit Weight [kg]	Permissible Radial Load (At Center of Axis) [N]	Permissible Axial Load [N]
Ezi-SERVO II -PE-ALL-42M-■-PN3-▲	0,85	54x10 ⁻⁷	3	5	3	0,012°	6	12	0~1000	0,90	240	270
Ezi-SERVO II -PE-ALL-42M-■-PN5-▲	1,42				5	0,0072°	9	18	0~600		290	330
Ezi-SERVO II -PE-ALL-42M-■-PN8-▲	2,28				8	0,0045°	9	18	0~375		340	410
Ezi-SERVO II -PE-ALL-42M-■-PN10-▲	2,85				10	0,0036°	6	12	0~300		360	450
Ezi-SERVO II -PE-ALL-42M-■-PN15-▲	4,14		5	7	15	0,0024°	6	12	0~200	1,06	410	540
Ezi-SERVO II -PE-ALL-42M-■-PN25-▲	6,90				25	0,00144°	9	18	0~120		490	640
Ezi-SERVO II -PE-ALL-42M-■-PN40-▲	9,00				40	0,0009°	9	18	0~75		570	640
Ezi-SERVO II -PE-ALL-42M-■-PN50-▲	9,00				50	0,00072°	9	18	0~60		620	640
Ezi-SERVO II -PE-ALL-42L-■-PN3-▲	0,92	77x10 ⁻⁷	3	5	3	0,012°	6	12	0~1000	0,98	240	270
Ezi-SERVO II -PE-ALL-42L-■-PN5-▲	1,54				5	0,0072°	9	18	0~600		290	330
Ezi-SERVO II -PE-ALL-42L-■-PN8-▲	2,47				8	0,0045°	9	18	0~375		340	410
Ezi-SERVO II -PE-ALL-42L-■-PN10-▲	3,09				10	0,0036°	6	12	0~300		360	450
Ezi-SERVO II -PE-ALL-42L-■-PN15-▲	4,49		5	7	15	0,0024°	6	12	0~200	1,14	410	540
Ezi-SERVO II -PE-ALL-42L-■-PN25-▲	7,49				25	0,00144°	9	18	0~120		490	640
Ezi-SERVO II -PE-ALL-42L-■-PN40-▲	9,00				40	0,0009°	9	18	0~75		570	640
Ezi-SERVO II -PE-ALL-42L-■-PN50-▲	9,00				50	0,00072°	9	18	0~60		620	640
Ezi-SERVO II -PE-ALL-42XL-■-PN3-▲	1,45	114x10 ⁻⁷	3	5	3	0,012°	6	12	0~1000	1,12	240	270
Ezi-SERVO II -PE-ALL-42XL-■-PN5-▲	2,42				5	0,0072°	9	18	0~600		290	330
Ezi-SERVO II -PE-ALL-42XL-■-PN8-▲	3,87				8	0,0045°	9	18	0~375		340	410
Ezi-SERVO II -PE-ALL-42XL-■-PN10-▲	4,84				10	0,0036°	6	12	0~300		360	450
Ezi-SERVO II -PE-ALL-42XL-■-PN15-▲	6,00		5	7	15	0,0024°	6	12	0~200	1,28	410	540
Ezi-SERVO II -PE-ALL-42XL-■-PN25-▲	9,00				25	0,00144°	9	18	0~120		490	640
Ezi-SERVO II -PE-ALL-42XL-■-PN40-▲	9,00				40	0,0009°	9	18	0~75		570	640
Ezi-SERVO II -PE-ALL-42XL-■-PN50-▲	9,00				50	0,00072°	9	18	0~60		620	640

* The code of encoder resolution will be marked in "■".

* The code of connector type will be marked in "▲".

● Specifications of Motor with Gearbox

56_{mm}

Unit Part Number	Maximum Holding Torque [N·m]	Rotor Inertia Moment [kg·m ²]	Backlash [arc-min]	Angle Transmission Error [arc-min]	Gear Ratio	Resolution (10,000 P/R Standard)	Permissible Torque [N·m]	Instantaneous Maximum Torque [N·m]	Permissible Speed Range [r/min]	Unit Weight [kg]	Permissible Radial Load (At Center of Axis) [N]	Permissible Axial Load [N]
Ezi-SERVO II -PE-ALL-56S-■-PN3-▲	1,1	180x10 ⁻⁷	3	5	3	0,012°	18	35	0~1000	1,90	430	310
Ezi-SERVO II -PE-ALL-56S-■-PN5-▲	1,9				5	0,0072°	27	50	0~600		510	390
Ezi-SERVO II -PE-ALL-56S-■-PN8-▲	3,0				8	0,0045°	27	50	0~375		600	480
Ezi-SERVO II -PE-ALL-56S-■-PN10-▲	3,8				10	0,0036°	18	35	0~300		640	530
Ezi-SERVO II -PE-ALL-56S-■-PN15-▲	5,5				15	0,0024°	18	35	0~200	2,20	740	630
Ezi-SERVO II -PE-ALL-56S-■-PN25-▲	9,3				25	0,00144°	27	50	0~120		870	790
Ezi-SERVO II -PE-ALL-56S-■-PN40-▲	14,9				40	0,0009°	27	50	0~75		1000	970
Ezi-SERVO II -PE-ALL-56S-■-PN50-▲	18,6				50	0,00072°	27	50	0~60		1100	1100
Ezi-SERVO II -PE-ALL-56M-■-PN3-▲	2,0	280x10 ⁻⁷	3	5	3	0,012°	18	35	0~1000	2,06	430	310
Ezi-SERVO II -PE-ALL-56M-■-PN5-▲	3,4				5	0,0072°	27	50	0~600		510	390
Ezi-SERVO II -PE-ALL-56M-■-PN8-▲	5,4				8	0,0045°	27	50	0~375		600	480
Ezi-SERVO II -PE-ALL-56M-■-PN10-▲	6,8				10	0,0036°	18	35	0~300		640	530
Ezi-SERVO II -PE-ALL-56M-■-PN15-▲	9,9				15	0,0024°	18	35	0~200	2,36	740	630
Ezi-SERVO II -PE-ALL-56M-■-PN25-▲	16,6				25	0,00144°	27	50	0~120		870	790
Ezi-SERVO II -PE-ALL-56M-■-PN40-▲	27,0				40	0,0009°	27	50	0~75		1000	970
Ezi-SERVO II -PE-ALL-56M-■-PN50-▲	27,0				50	0,00072°	27	50	0~60		1100	1100
Ezi-SERVO II -PE-ALL-56L-■-PN3-▲	4,0	520x10 ⁻⁷	3	5	3	0,012°	18	35	0~1000	2,50	430	310
Ezi-SERVO II -PE-ALL-56L-■-PN5-▲	6,8				5	0,0072°	27	50	0~600		510	390
Ezi-SERVO II -PE-ALL-56L-■-PN8-▲	10,8				8	0,0045°	27	50	0~375		600	480
Ezi-SERVO II -PE-ALL-56L-■-PN10-▲	13,6				10	0,0036°	18	35	0~300		640	530
Ezi-SERVO II -PE-ALL-56L-■-PN15-▲	18,0				15	0,0024°	18	35	0~200	2,80	740	630
Ezi-SERVO II -PE-ALL-56L-■-PN25-▲	27,0				25	0,00144°	27	50	0~120		870	790
Ezi-SERVO II -PE-ALL-56L-■-PN40-▲	27,0				40	0,0009°	27	50	0~75		1000	970
Ezi-SERVO II -PE-ALL-56L-■-PN50-▲	27,0				50	0,00072°	27	50	0~60		1100	1100

* The code of encoder resolution will be marked in "■".

* The code of connector type will be marked in "▲".

● Specifications of Motor with Gearbox

60mm

Unit Part Number	Maximum Holding Torque [N·m]	Rotor Inertia Moment [kg·m ²]	Backlash [arc-min]	Angle Transmission Error [arc-min]	Gear Ratio	Resolution (10,000 P/R Standard)	Permissible Torque [N·m]	Instantaneous Maximum Torque [N·m]	Permissible Speed Range [r/min]	Unit Weight [kg]	Permissible Radial Load (At Center of Axis) [N]	Permissible Axial Load [N]
Ezi-SERVO II -PE-ALL-60S-■-PN3-▲	1,5	240x10 ⁻⁷	3	5	3	0,012°	18	35	0~1000	1,98	430	310
Ezi-SERVO II -PE-ALL-60S-■-PN5-▲	2,5				5	0,0072°	27	50	0~600		510	390
Ezi-SERVO II -PE-ALL-60S-■-PN8-▲	4,0				8	0,0045°	27	50	0~375		600	480
Ezi-SERVO II -PE-ALL-60S-■-PN10-▲	5,1				10	0,0036°	18	35	0~300		640	530
Ezi-SERVO II -PE-ALL-60S-■-PN15-▲	7,4				15	0,0024°	18	35	0~200	2,28	740	630
Ezi-SERVO II -PE-ALL-60S-■-PN25-▲	12,3				25	0,00144°	27	50	0~120		870	790
Ezi-SERVO II -PE-ALL-60S-■-PN40-▲	19,8				40	0,0009°	27	50	0~75		1000	970
Ezi-SERVO II -PE-ALL-60S-■-PN50-▲	24,7				50	0,00072°	27	50	0~60		1100	1100
Ezi-SERVO II -PE-ALL-60M-■-PN3-▲	2,6	490x10 ⁻⁷	3	5	3	0,012°	18	35	0~1000	2,12	430	310
Ezi-SERVO II -PE-ALL-60M-■-PN5-▲	4,4				5	0,0072°	27	50	0~600		510	390
Ezi-SERVO II -PE-ALL-60M-■-PN8-▲	7,0				8	0,0045°	27	50	0~375		600	480
Ezi-SERVO II -PE-ALL-60M-■-PN10-▲	8,8				10	0,0036°	18	35	0~300		640	530
Ezi-SERVO II -PE-ALL-60M-■-PN15-▲	12,8				15	0,0024°	18	35	0~200	2,42	740	630
Ezi-SERVO II -PE-ALL-60M-■-PN25-▲	21,4				25	0,00144°	27	50	0~120		870	790
Ezi-SERVO II -PE-ALL-60M-■-PN40-▲	27,0				40	0,0009°	27	50	0~75		1000	970
Ezi-SERVO II -PE-ALL-60M-■-PN50-▲	27,0				50	0,00072°	27	50	0~60		1100	1100
Ezi-SERVO II -PE-ALL-60L-■-PN3-▲	5,2	690x10 ⁻⁷	3	5	3	0,012°	18	35	0~1000	2,68	430	310
Ezi-SERVO II -PE-ALL-60L-■-PN5-▲	8,7				5	0,0072°	27	50	0~600		510	390
Ezi-SERVO II -PE-ALL-60L-■-PN8-▲	13,9				8	0,0045°	27	50	0~375		600	480
Ezi-SERVO II -PE-ALL-60L-■-PN10-▲	18,0				10	0,0036°	18	35	0~300		640	530
Ezi-SERVO II -PE-ALL-60L-■-PN15-▲	18,0				15	0,0024°	18	35	0~200	2,98	740	630
Ezi-SERVO II -PE-ALL-60L-■-PN25-▲	27,0				25	0,00144°	27	50	0~120		870	790
Ezi-SERVO II -PE-ALL-60L-■-PN40-▲	27,0				40	0,0009°	27	50	0~75		1000	970
Ezi-SERVO II -PE-ALL-60L-■-PN50-▲	27,0				50	0,00072°	27	50	0~60		1100	1100

* The code of encoder resolution will be marked in "■".

* The code of connector type will be marked in "▲".

● Specifications of Motor with Gearbox

86_{mm}

Unit Part Number	Maximum Holding Torque [N·m]	Rotor Inertia Moment [kg·m ²]	Backlash [arc-min]	Angle Transmission Error [arc-min]	Gear Ratio	Resolution (10,000 P/R Standard)	Permissible Torque [N·m]	Instantaneous Maximum Torque [N·m]	Permissible Speed Range [r/min]	Unit Weight [kg]	Permissible Radial Load (At Center of Axis) [N]	Permissible Axial Load [N]
Ezi-SERVO II -PE-ALL-86M-■-PN3-▲	9,6	1800x10 ⁻⁷	3	5	3	0,012°	50	80	0~1000	6,07	810	930
Ezi-SERVO II -PE-ALL-86M-■-PN5-▲	16,0				5	0,0072°	75	125	0~600		960	1200
Ezi-SERVO II -PE-ALL-86M-■-PN8-▲	25,7				8	0,0045°	75	125	0~375		1100	1400
Ezi-SERVO II -PE-ALL-86M-■-PN10-▲	32,1				10	0,0036°	50	80	0~300		1200	1600
Ezi-SERVO II -PE-ALL-86M-■-PN15-▲	46,6				15	0,0024°	50	80	0~200	6,87	1200	1900
Ezi-SERVO II -PE-ALL-86M-■-PN25-▲	75,0				25	0,00144°	75	125	0~120		1600	2200
Ezi-SERVO II -PE-ALL-86M-■-PN40-▲	75,0				40	0,0009°	75	125	0~75		1900	2200
Ezi-SERVO II -PE-ALL-86M-■-PN50-▲	75,0				50	0,00072°	75	125	0~60		2100	2200
Ezi-SERVO II -PE-ALL-86L-■-PN3-▲	17,1	3600x10 ⁻⁷	3	5	3	0,012°	50	80	0~1000	7,61	810	930
Ezi-SERVO II -PE-ALL-86L-■-PN5-▲	28,5				5	0,0072°	75	125	0~600		960	1200
Ezi-SERVO II -PE-ALL-86L-■-PN8-▲	45,6				8	0,0045°	75	125	0~375		1100	1400
Ezi-SERVO II -PE-ALL-86L-■-PN10-▲	50,0				10	0,0036°	50	80	0~300		1200	1600
Ezi-SERVO II -PE-ALL-86L-■-PN15-▲	50,0				15	0,0024°	50	80	0~200	8,41	1200	1900
Ezi-SERVO II -PE-ALL-86L-■-PN25-▲	75,0				25	0,00144°	75	125	0~120		1600	2200
Ezi-SERVO II -PE-ALL-86L-■-PN40-▲	75,0				40	0,0009°	75	125	0~75		1900	2200
Ezi-SERVO II -PE-ALL-86L-■-PN50-▲	75,0				50	0,00072°	75	125	0~60		2100	2200
Ezi-SERVO II -PE-ALL-86XL-■-PN3-▲	23,6	5400x10 ⁻⁷	3	5	3	0,012°	50	80	0~1000	9,14	810	930
Ezi-SERVO II -PE-ALL-86XL-■-PN5-▲	39,4				5	0,0072°	75	125	0~600		960	1200
Ezi-SERVO II -PE-ALL-86XL-■-PN8-▲	63,0				8	0,0045°	75	125	0~375		1100	1400
Ezi-SERVO II -PE-ALL-86XL-■-PN10-▲	50,0				10	0,0036°	50	80	0~300		1200	1600
Ezi-SERVO II -PE-ALL-86XL-■-PN15-▲	50,0				15	0,0024°	50	80	0~200	9,94	1200	1900
Ezi-SERVO II -PE-ALL-86XL-■-PN25-▲	75,0				25	0,00144°	75	125	0~120		1600	2200
Ezi-SERVO II -PE-ALL-86XL-■-PN40-▲	75,0				40	0,0009°	75	125	0~75		1900	2200
Ezi-SERVO II -PE-ALL-86XL-■-PN50-▲	75,0				50	0,00072°	75	125	0~60		2100	2200

* The code of encoder resolution will be marked in "■".

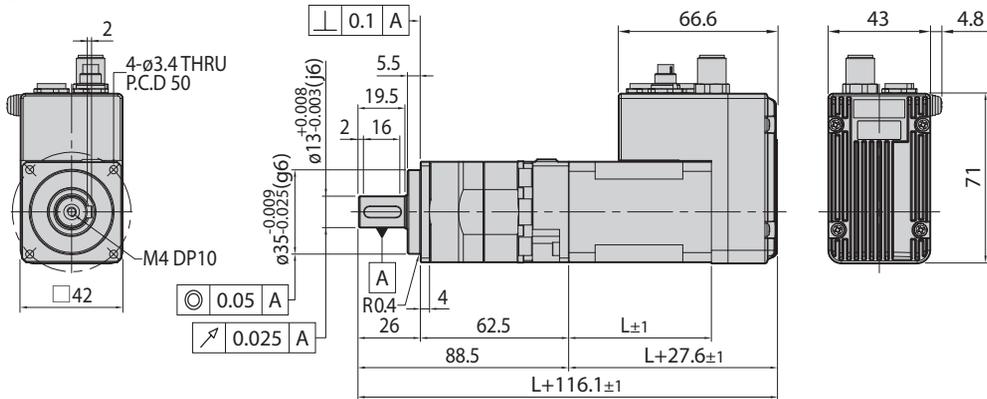
* The code of connector type will be marked in "▲".

42mm

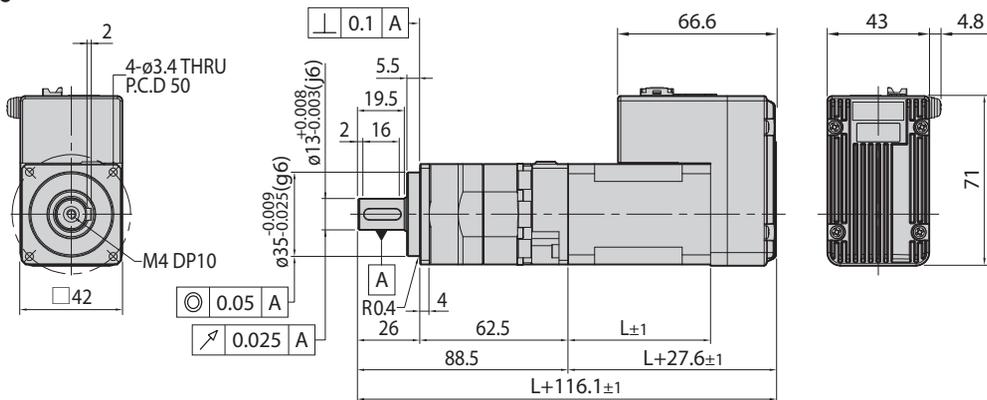
Unit Part Number	Motor	Stage	□ Gear Ratio	L [mm]
Ezi-SERVO II-PE-ALL-42M-■-PN□-▲	Motor & Drive Integrated	Single Stage	3, 5, 8, 10	40
Ezi-SERVO II-PE-ALL-42L-■-PN□-▲			3, 5, 8, 10	48
Ezi-SERVO II-PE-ALL-42XL-■-PN□-▲			3, 5, 8, 10	60

- * The code of encoder resolution will be marked in "■".
- * The code of connector type will be marked in "▲".

◆ M Type



◆ R Type

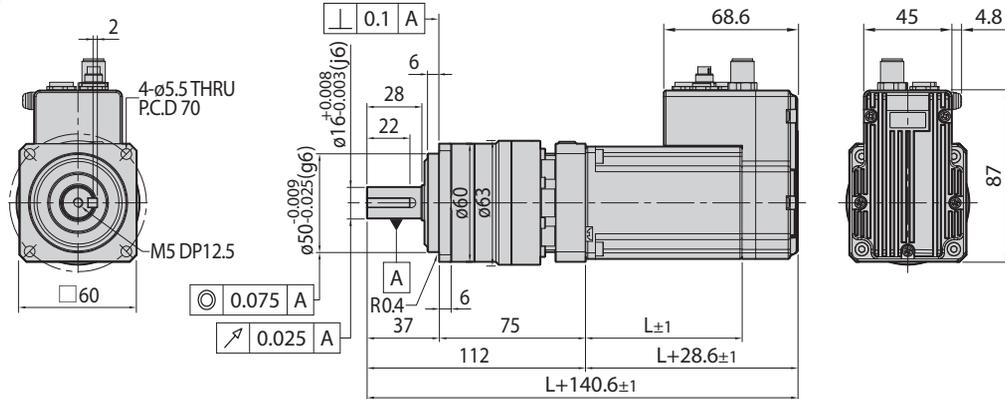


56mm

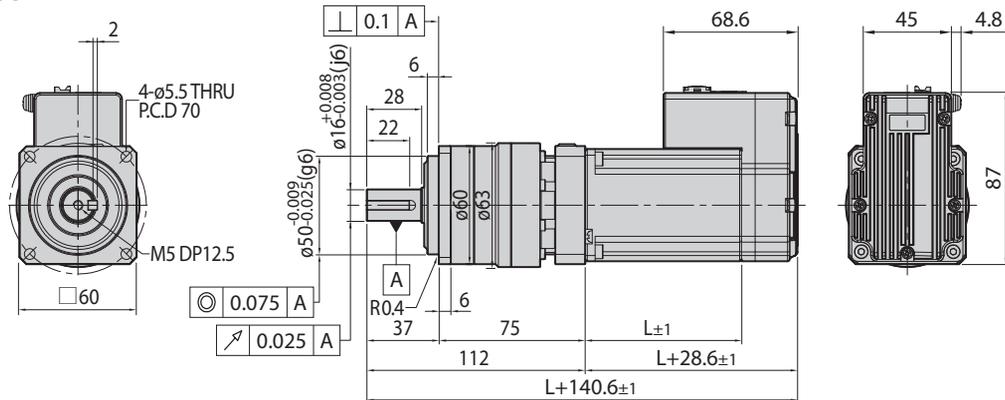
Unit Part Number	Motor	Stage	□ Gear Ratio	L [mm]
Ezi-SERVO II-PE-ALL-56S-■-PN□-▲	Motor & Drive Integrated	Single Stage	3, 5, 8, 10	46
Ezi-SERVO II-PE-ALL-56M-■-PN□-▲			3, 5, 8, 10	55
Ezi-SERVO II-PE-ALL-56L-■-PN□-▲			3, 5, 8, 10	80

- * The code of encoder resolution will be marked in "■".
- * The code of connector type will be marked in "▲".

◆ M Type



◆ R Type

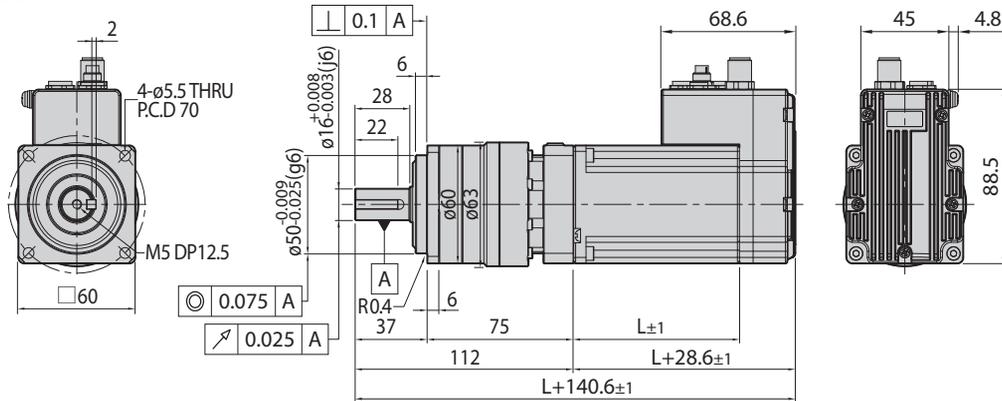


60mm

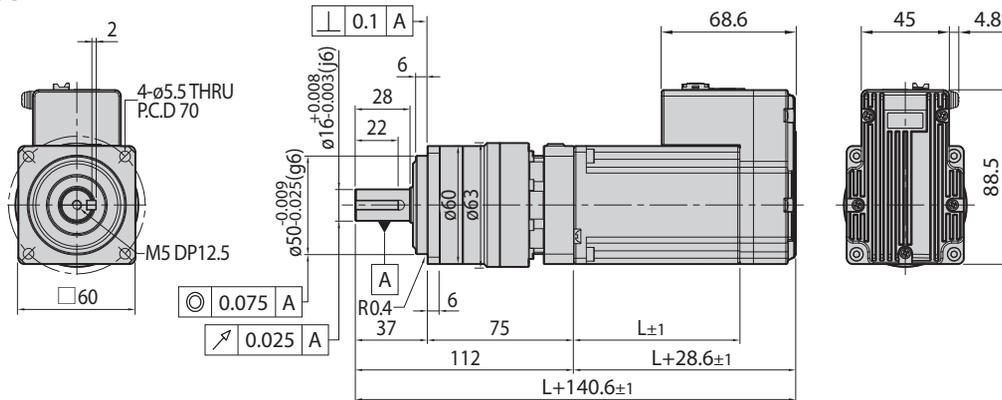
Unit Part Number	Motor	Stage	□ Gear Ratio	L [mm]
Ezi-SERVO II-PE-ALL-60S-■-PN□-▲	Motor & Drive Integrated	Single Stage	3, 5, 8, 10	47
Ezi-SERVO II-PE-ALL-60M-■-PN□-▲			3, 5, 8, 10	56
Ezi-SERVO II-PE-ALL-60L-■-PN□-▲			3, 5, 8, 10	85

- * The code of encoder resolution will be marked in "■".
- * The code of connector type will be marked in "▲".

◆ M Type



◆ R Type

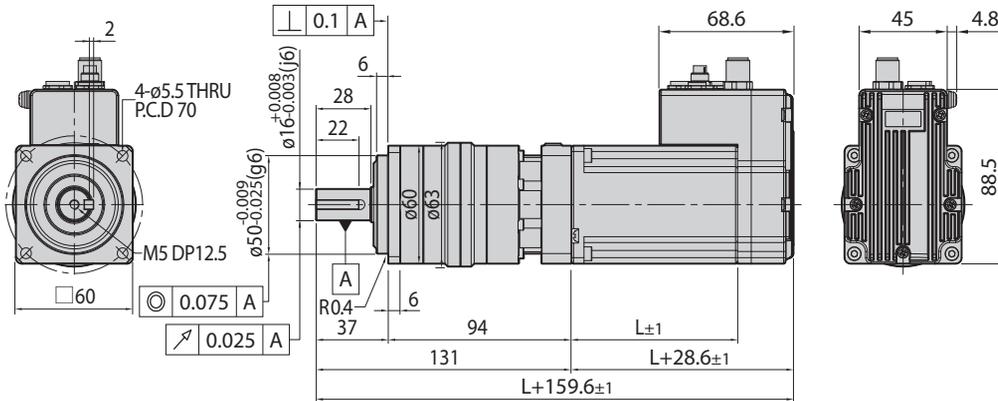


60_{mm}

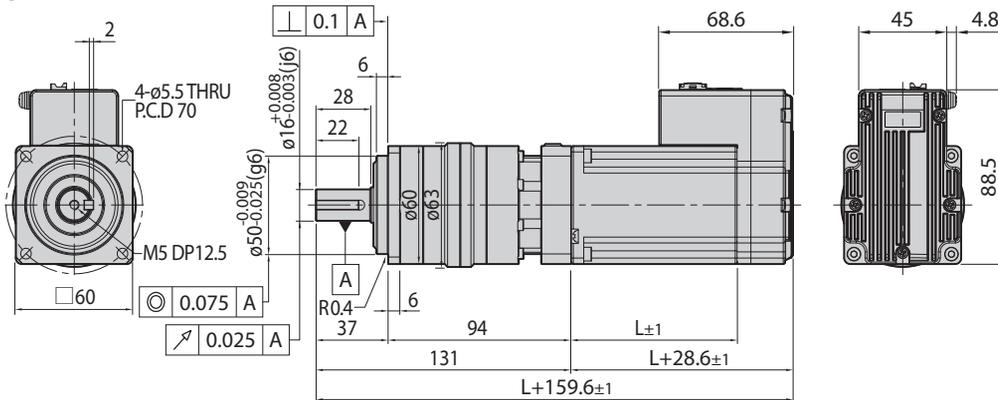
Unit Part Number	Motor	Stage	□ Gear Ratio	L [mm]
Ezi-SERVO II -PE-ALL-60S-■-PN□-▲	Motor & Drive Integrated	Double Stage	15, 25, 40, 50	47
Ezi-SERVO II -PE-ALL-60M-■-PN□-▲			15, 25, 40, 50	56
Ezi-SERVO II -PE-ALL-60L-■-PN□-▲			15, 25, 40, 50	85

- * The code of encoder resolution will be marked in "■".
- * The code of connector type will be marked in "▲".

◆ M Type



◆ R Type

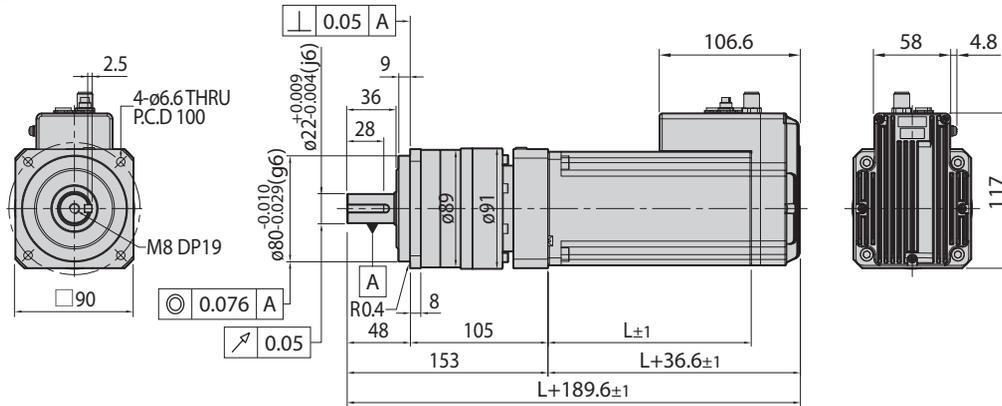


86mm

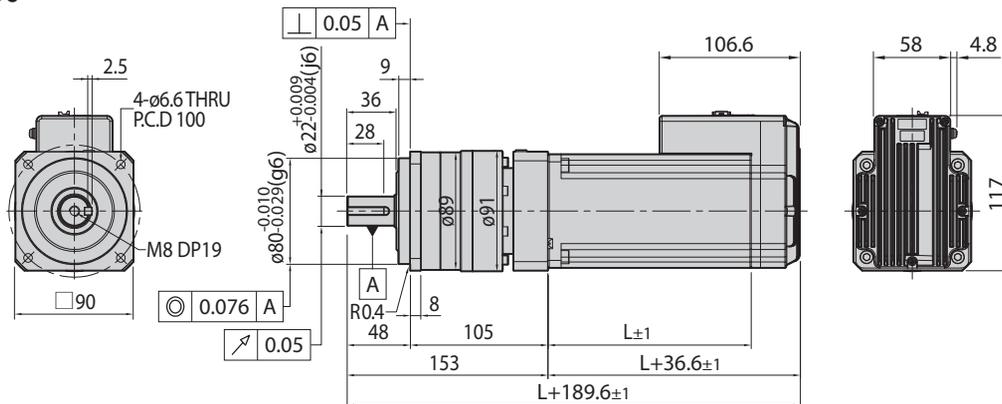
Unit Part Number	Motor	Stage	□ Gear Ratio	L [mm]
Ezi-SERVO II-PE-ALL-86M-■-PN□-▲	Motor & Drive Integrated	Single Stage	3, 5, 8, 10	78
Ezi-SERVO II-PE-ALL-86L-■-PN□-▲			3, 5, 8, 10	117
Ezi-SERVO II-PE-ALL-86XL-■-PN□-▲			3, 5, 8, 10	155

- * The code of encoder resolution will be marked in "■".
- * The code of connector type will be marked in "▲".

◆ M Type



◆ R Type

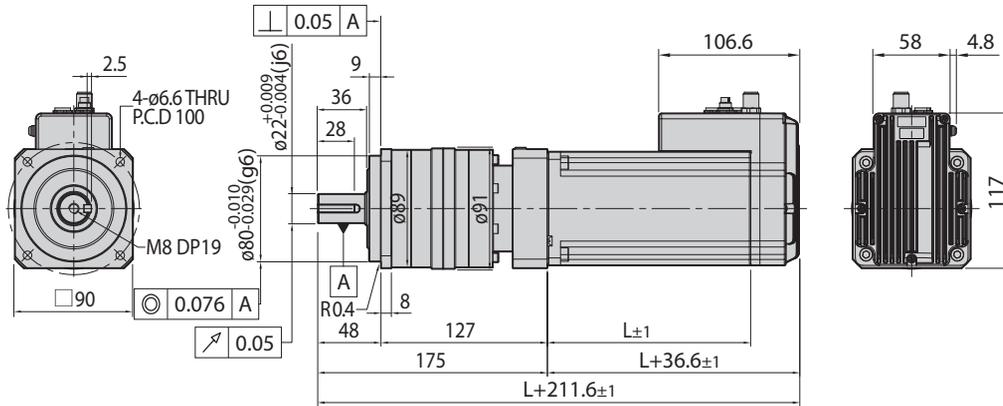


86_{mm}

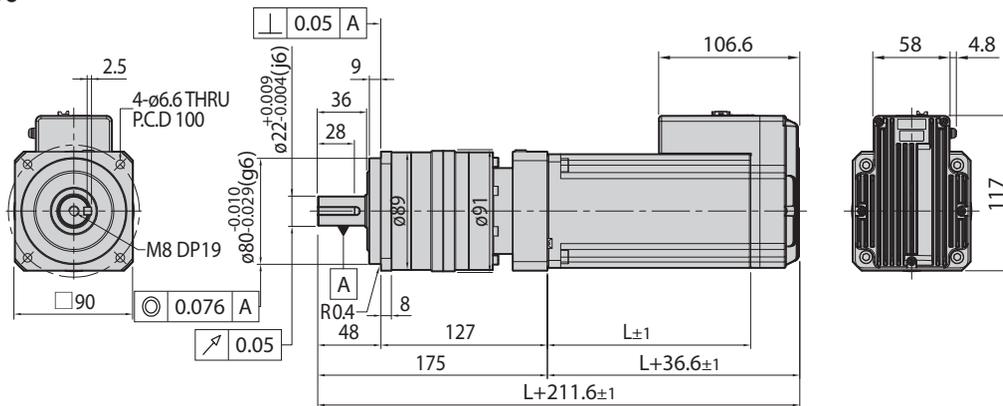
Unit Part Number	Motor	Stage	□ Gear Ratio	L [mm]
Ezi-SERVO II -PE-ALL-86M-■-PN□-▲	Motor & Drive Integrated	Double Stage	15, 25, 40, 50	78
Ezi-SERVO II -PE-ALL-86L-■-PN□-▲			15, 25, 40, 50	117
Ezi-SERVO II -PE-ALL-86XL-■-PN□-▲			15, 25, 40, 50	155

* The code of encoder resolution will be marked in "■".
 * The code of connector type will be marked in "▲".

◆ M Type

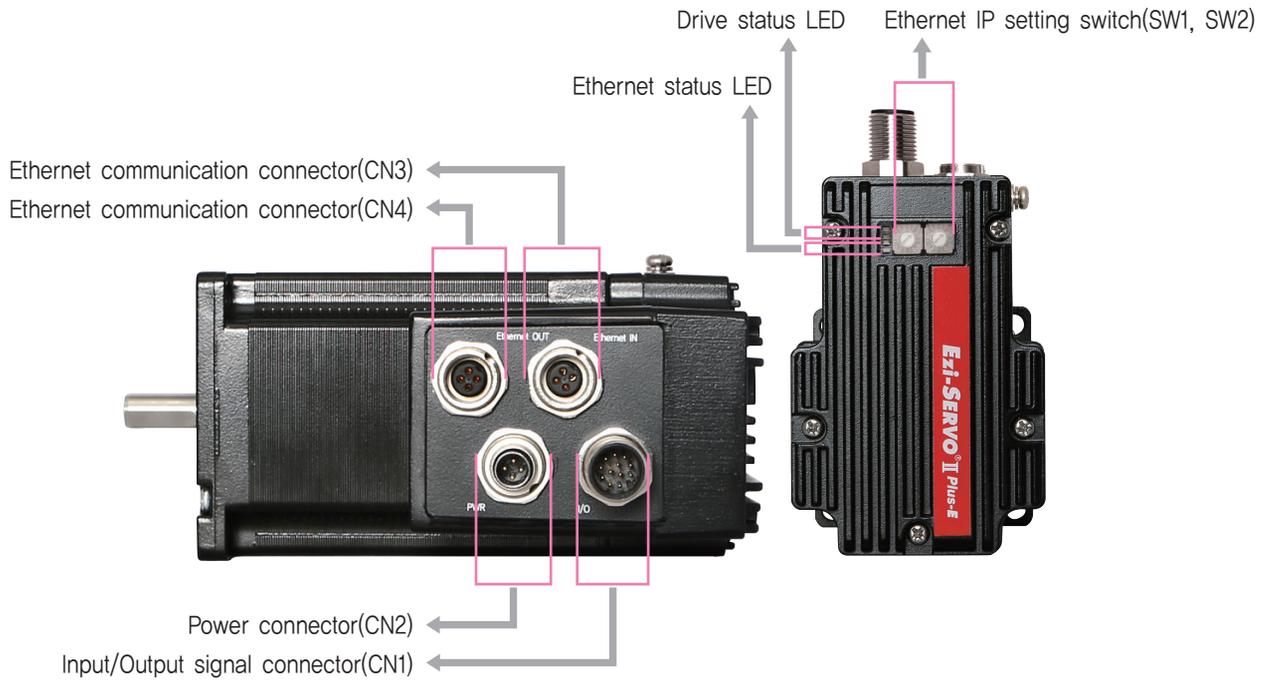


◆ R Type

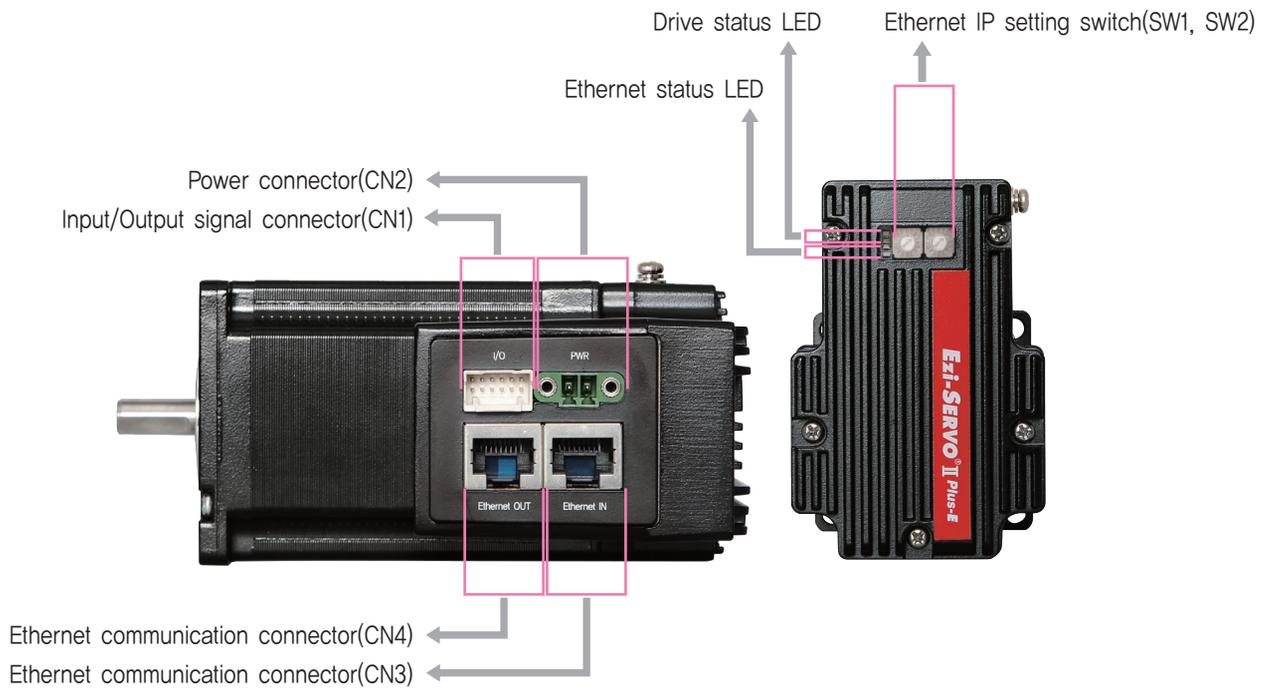


● Settings and Operation

◆ M Type

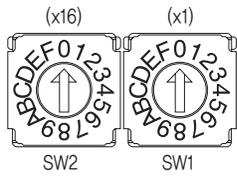


◆ R Type



1. Ethernet IP Setting Switch(SW1, SW2)

These switches set the 4th octet of Ethernet IP. The 1st octet, the 2nd octet, and the 3rd octet are set by GUI. If the switches are set to 255(FF), DHCP function is activated, and IP is automatically set, ignoring the set value. (Please refer to the manual for details.)

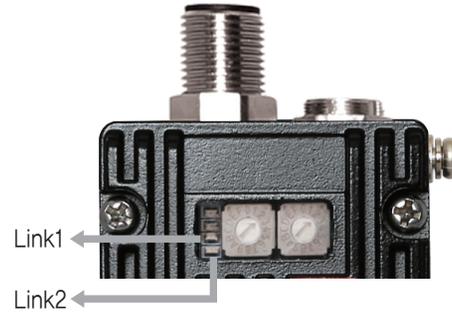


e.g.,) In case of SW2 : 5 and SW1 : 7
 $(5 \times 16) + (7 \times 1) = 87$
 IP is to be set as 192.168.0.87

2. Ethernet Status LED

LED indicates communication status of Ethernet.

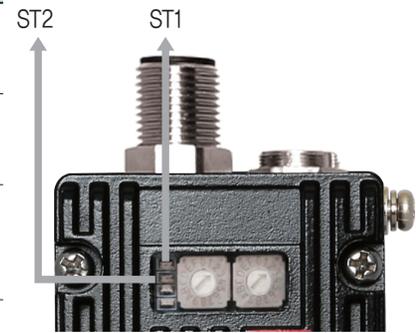
Name	Color	Status	Description
LK1/ LK2	Green	OFF	Link not Established
		ON	Link Established



3. Drive Status LED

LED informs operation status of the drive.

LED Indication	LED Status	Description
ST1 : ST2 :	ST1 blinks, ST2 is OFF.	Servo Off
ST1 : ST2 :	ST1 is ON, ST2 is OFF.	Servo On
ST1 : ST2 :	ST1 and ST2 are ON.	A position error is greater than the set value (Inposition Value) while the motor is stopped.
ST1 : ST2 :	ST1 and ST2 blink alternately.	A position error is greater than the set value (Inposition Value) while the motor is stopped.
ST1 : ST2 :	ST1 is OFF, ST2 blinks repeatedly for a set number of times depending on the type of error	Error



◆ List of error types by the number of ST2 LED blinking

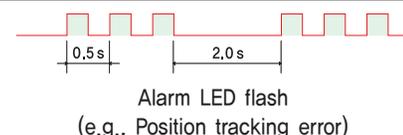
No.	Error Type	Causes
1	Over Current Error	The current through power devices in drive exceeds the limit.*1
2	Over Speed Error	The motor speed exceeds 3,000r/min
3	Position Tracking Error	Position error value is greater than the reference value while the motor is running*2
4	Over Load Error	The motor is continuously operated more than 5 seconds under a load exceeding the max. torque.
5	Over Temperature Error	Internal temperature of the drive exceeds 85°C
6	Over Regenerative Voltage Error	Back-EMF is higher than limit value*3
7	Motor Connect Error	There is a problem with the connection between the drive and the motor
8	Encoder Connect Error	There is a problem with the connection between the drive and the encoder
10	In-Position Error	After operation is finished, position error larger than 1 pulse is continued for more than 3 seconds
12	ROM Error	Error occurs in parameter storage device(ROM)
15	Position Overflow Error	Position error value is greater than the reference value while the motor is stopped*2

*1 : Limit value depends on motor model. (Refer to the Manual)

*2 : The default setting value is 180°, and it can be changed by parameter. (Refer to the Manual)

*3 : Voltage limit of Back-EMF depends on motor model. (Refer to the Manual)

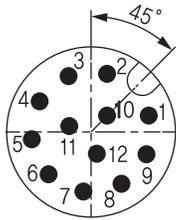
※ Please refer to user Manual for the details of protection functions.



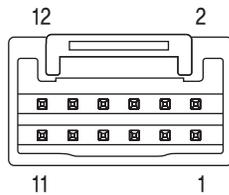
4. Input/Output Signal Connector(CN1)

No.	Function	I/O
1	EXT_DC24V	Input
2	EXT_GND	Input
3	BRAKE+	Output
4	BRAKE-	Output
5	LIMIT+	Input
6	LIMIT-	Input
7	ORIGIN	Input
8	Digital In1	Input
9	Digital In2	Input
10	Digital In3	Input
11	Compare Out	Output
12	Digital Out1	Output

◆ M Type



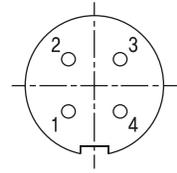
◆ R Type



6. EtherCAT Communication Connector(CN3, CN4)

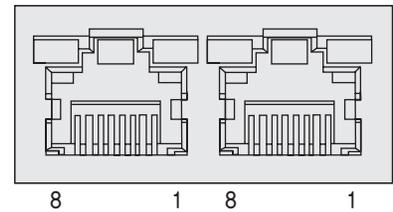
◆ M Type

No.	Function
1	TD+
2	TD-
3	RD+
4	RD-
Connector hood	F,GND



◆ R Type

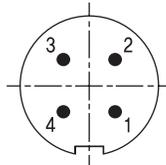
No.	Function	No.	Function
1	TD+	6	RD-
2	TD-	7	----
3	RD+	8	----
4	----	Connector hood	F,GND
5	----		



5. Power Connector(CN2)

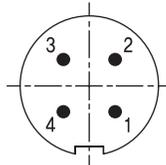
◆ M Type

No.	Function	I/O
1	DC24V	Input
2	DC24V	Input
3	GND	Input
4	GND	Input



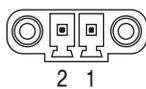
◆ M Type(86mm)

No.	Function	I/O
1	DC40~70V	Input
2	DC40~70V	Input
3	GND	Input
4	GND	Input



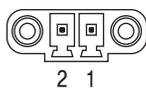
◆ R Type

No.	Function	I/O
1	DC24V	Input
2	GND	Input

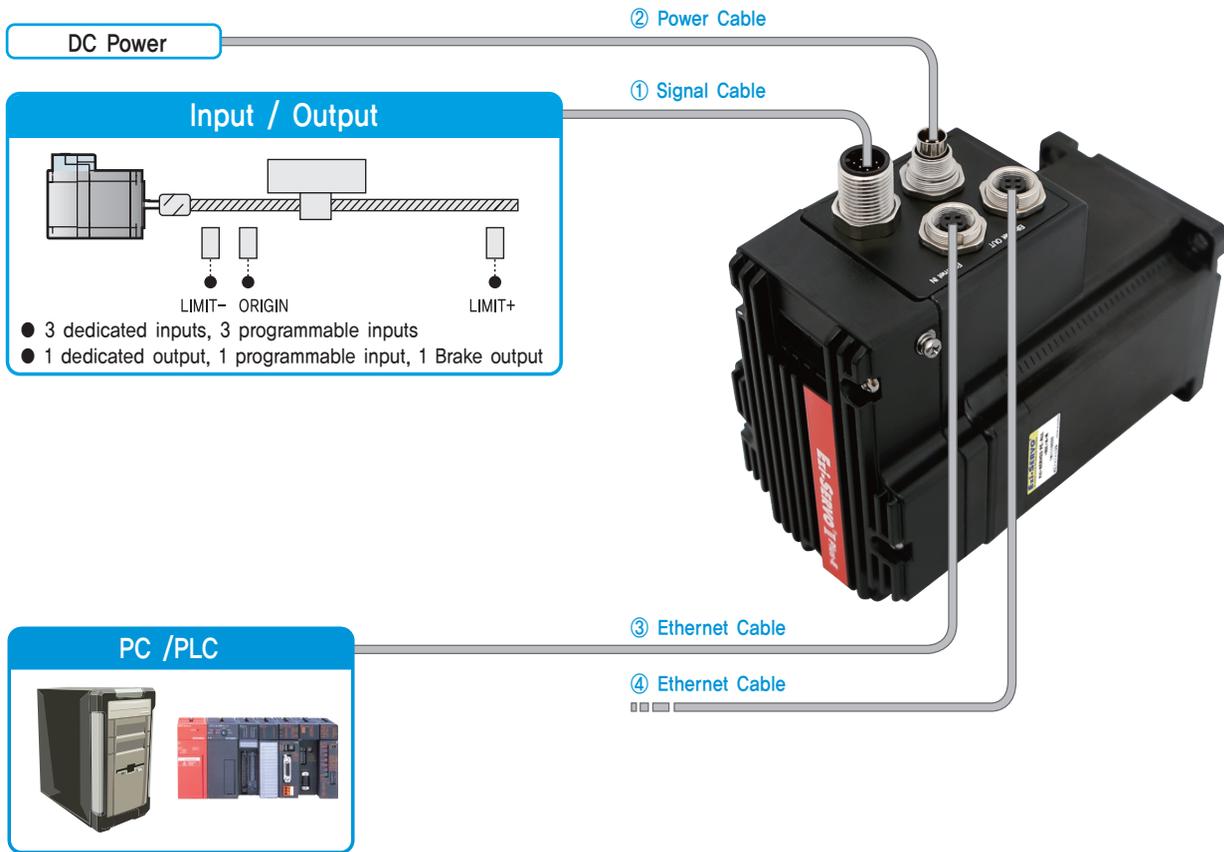


◆ R Type(86mm)

No.	Function	I/O
1	DC40~70V	Input
2	GND	Input



● System Configuration [M Type]



Cable Type	Max. Length	Remarks
① Signal Cable	20m	Options (Sold separately)
② Power Cable	2m	
③/④ Ethernet Cable	100m	

1. Accessories

Connectors

These are connector specifications for drive cabling.

Purpose	Item	Part Number	Manufacturer
Power (CN2)	Connector	99 0410 75 04	BINDER
Signal (CN1)	Connector	99 0492 52 12	BINDER
Ethernet (CN3, CN4)	Connector	99 0409 75 04	BINDER

※ The connectors above are supplied with the product. If you are using other parts, please make sure they meet the specifications.

2. Options

① Signal Cable

These are the cables to connect Ezi-SERVOII Plus-E ALL drive and other input/output devices.

Purpose	Part Number	Length [m]	Cable Type	Remarks
Drive – I/O Device Connection	CSEM-S-001F	1	Normal Cable	Maximum Length: 20m
	CSEM-S-002F	2		
	CSEM-S-003F	3		
	CSEM-S-005F	5		
	CSEM-S-001M	1	Robot Cable	
	CSEM-S-002M	2		
	CSEM-S-003M	3		
	CSEM-S-005M	5		

* If you need cables with length(in units of 1m) not listed on the table, please contact FASTECH for more information.

② Signal Cable

These are the cables to connect Ezi-SERVOII Plus-E ALL drive and the power.

Purpose	Part Number	Length [m]	Cable Type	Remarks
Drive – Power Connection	CWPA-P-001F	1	Normal Cable	Maximum Length: 2m
	CWPA-P-002F	2		
	CWPA-P-001M	1	Robot Cable	
	CWPA-P-002M	2		

③ Ethernet Cable (M Type Connector – RJ45)

These are the cables to connect Ezi-SERVOII Plus-E ALL M Type and Ethernet Master, Ezi-SERVOII Plus-E, Ezi-SERVOII Plus-E ALL R Type with Ethernet network.

Purpose	Part Number	Length [m]	Cable Type	Remarks
Ethernet Connection	CGNM-EC-001F	1	Normal Cable	<ul style="list-style-type: none"> · STP(Shielded Twisted Pair) Cable · Category 5e or higher · Maximum Length: 100m
	CGNM-EC-002F	2		
	CGNM-EC-003F	3		
	CGNM-EC-005F	5		
	CGNM-EC-001M	1	Robot Cable	
	CGNM-EC-002M	2		
	CGNM-EC-003M	3		
	CGNM-EC-005M	5		

* If you need cables with length(in units of 1m) not listed on the table, please contact FASTECH for more information.

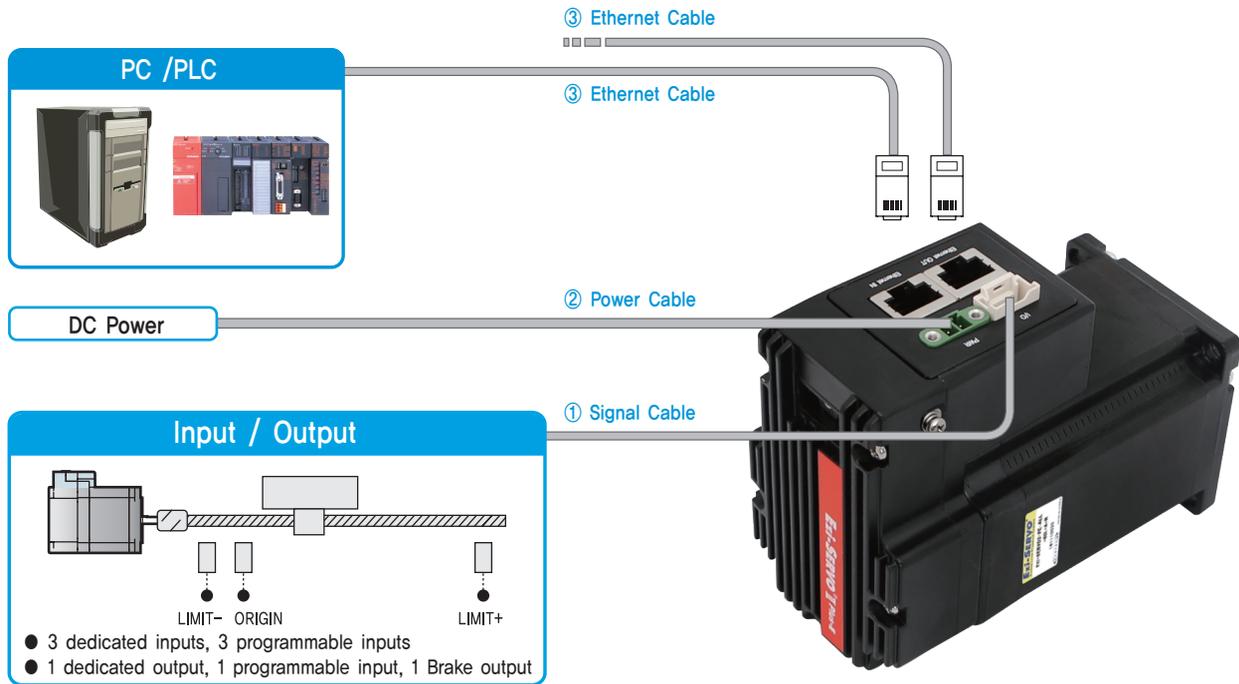
④ Ethernet Cable (M Type Connector – M Type Connector)

These are the cables to connect between Ezi-SERVOII Plus-E ALL M Type products with Ethernet network.

Purpose	Part Number	Length [m]	Cable Type	Remarks
Ethernet Connection	CWMD-EC-001F	1	Normal Cable	<ul style="list-style-type: none"> · STP(Shielded Twisted Pair) Cable · Category 5e or higher · Maximum Length: 100m
	CWMD-EC-002F	2		
	CWMD-EC-003F	3		
	CWMD-EC-005F	5		
	CWMD-EC-001M	1	Robot Cable	
	CWMD-EC-002M	2		
	CWMD-EC-003M	3		
	CWMD-EC-005M	5		

* If you need cables with length(in units of 1m) not listed on the table, please contact FASTECH for more information.

● System Configuration [R Type]



Cable Type	Max. Length	Remarks
① Signal Cable	20m	Options (Sold separately)
② Power Cable	2m	
③ EtherCAT Cable	100m	

1. Accessories

Connectors

These are connector specifications for drive cabling.

Purpose	Item	Part Number	Manufacturer
Power (CN2)	Terminal Block	AKZ1550/2F-3,81	PTR
Signal (CN1)	Housing	501646-1200	MOLEX
	Terminal	501648-1000 (AWG 26~28)	

※ The connectors above are supplied with the product. If you are using other parts, please make sure they meet the specifications.

2. Options

① Signal Cable

These are the cables to connect Ezi-SERVOII Plus-E ALL drive and other input/output devices.

Purpose	Part Number	Length [m]	Cable Type	Remarks
Drive – I/O Device Connection	CSER-S-001F	1	Normal Cable	Maximum Length: 20m
	CSER-S-002F	2		
	CSER-S-003F	3		
	CSER-S-005F	5		
	CSER-S-001M	1	Robot Cable	
	CSER-S-002M	2		
	CSER-S-003M	3		
	CSER-S-005M	5		

* If you need cables with length(in units of 1m) not listed on the table, please contact FASTECH for more information.

② Drive Power Cable

These are the cables to connect Ezi-SERVOII Plus-E ALL drive and the power.

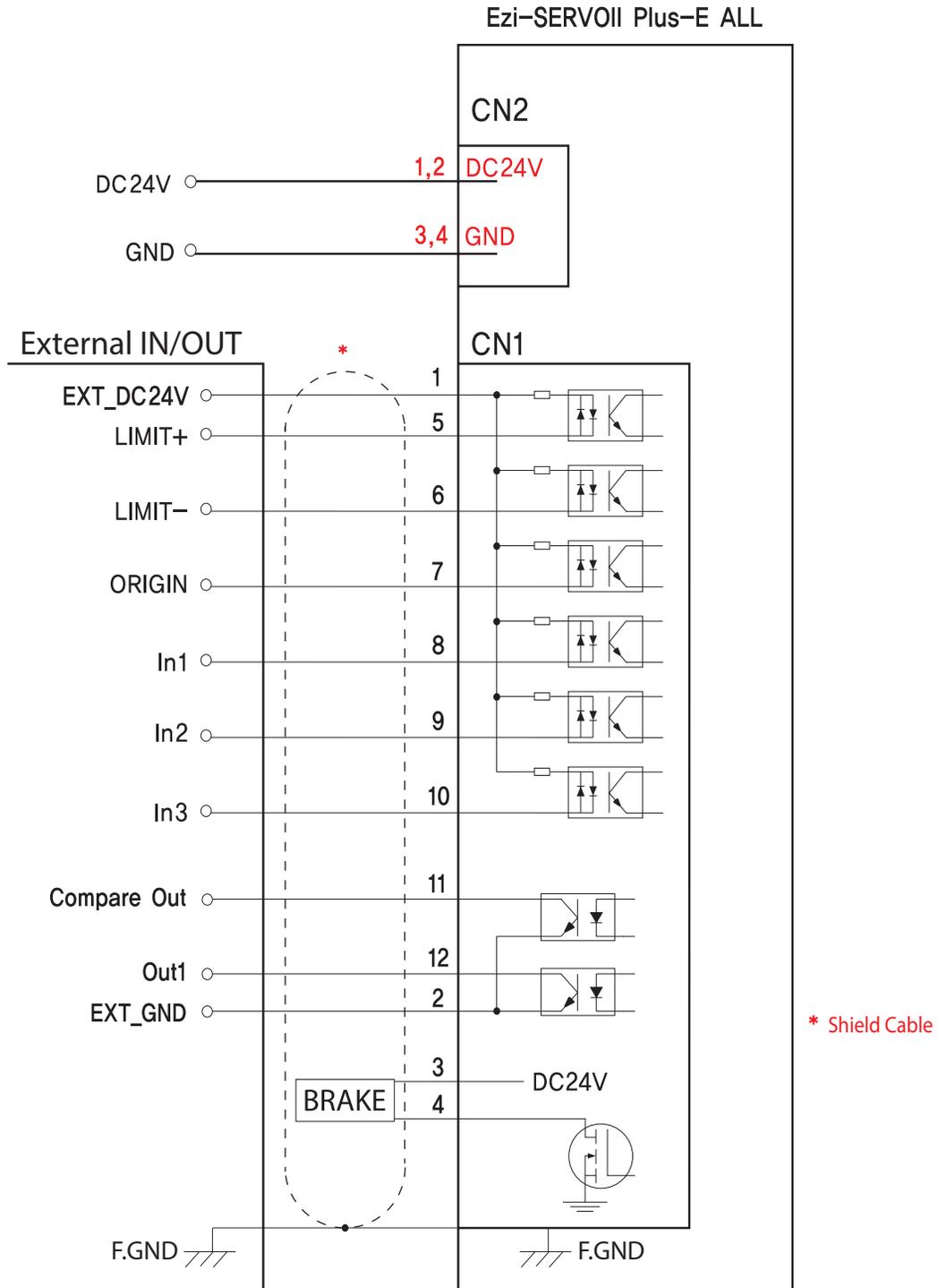
Purpose	Part Number	Length [m]	Cable Type	Remarks
Drive – Power Connection	CSVA-P-001F	1	Normal Cable	Maximum Length: 2m
	CSVA-P-002F	2		
	CSVA-P-001M	1	Robot Cable	
	CSVA-P-002M	2		
R Type 86mm products Drive – Power Connection	CSPA-P-001F	1	Normal Cable	
	CSPA-P-002F	2		
	CSPA-P-001M	1	Robot Cable	
	CSPA-P-002M	2		

③ Ethernet Cable

Purpose	Part Number	Length [m]	Cable Type	Remarks
Ethernet Connection	CGNR-EC-001F	1	Normal Cable	<ul style="list-style-type: none"> · STP(Shielded Twisted Pair) Cable · Category 5e or higher · Maximum Length: 100m
	CGNR-EC-002F	2		
	CGNR-EC-003F	3		
	CGNR-EC-005F	5		
	CGNR-EC-001M	1	Robot Cable	
	CGNR-EC-002M	2		
	CGNR-EC-003M	3		
	CGNR-EC-005M	5		

* If you need cables with length(in units of 1m) not listed on the table, please contact FASTECH for more information.

External Wiring Diagram [M Type]



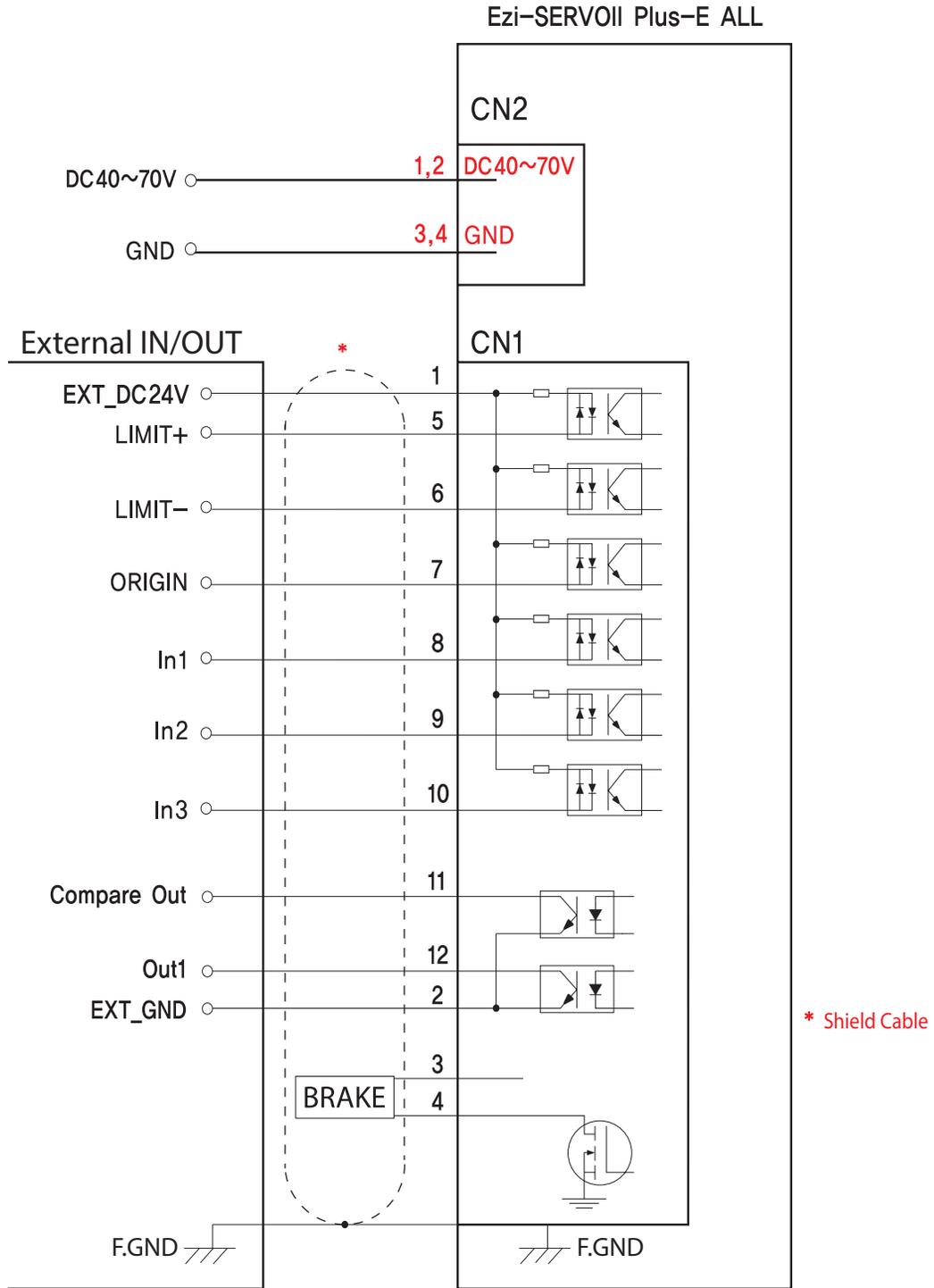
※ When connects I/O cable between controller and drive, please turn off the power of both controller and drive to prevent electric shock or to protect the drive from any damage.

CAUTION

In order to use the products listed in this catalog safely and correctly, be sure to read the instruction manual before using the product.

● External Wiring Diagram [M Type 86mm]

FASTECH Ezi-SERVOII Plus-E ALL

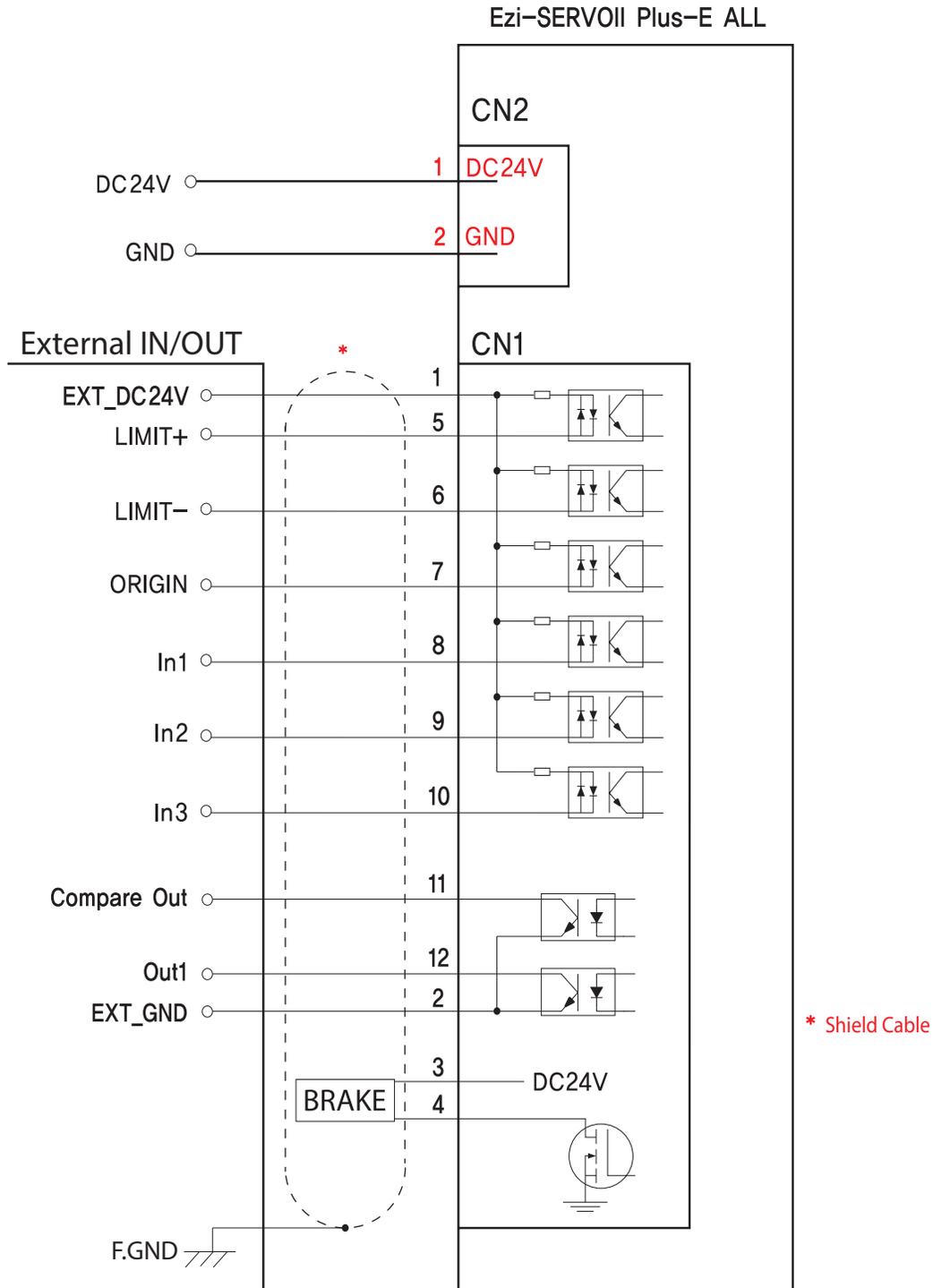


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External Wiring Diagram [R Type]



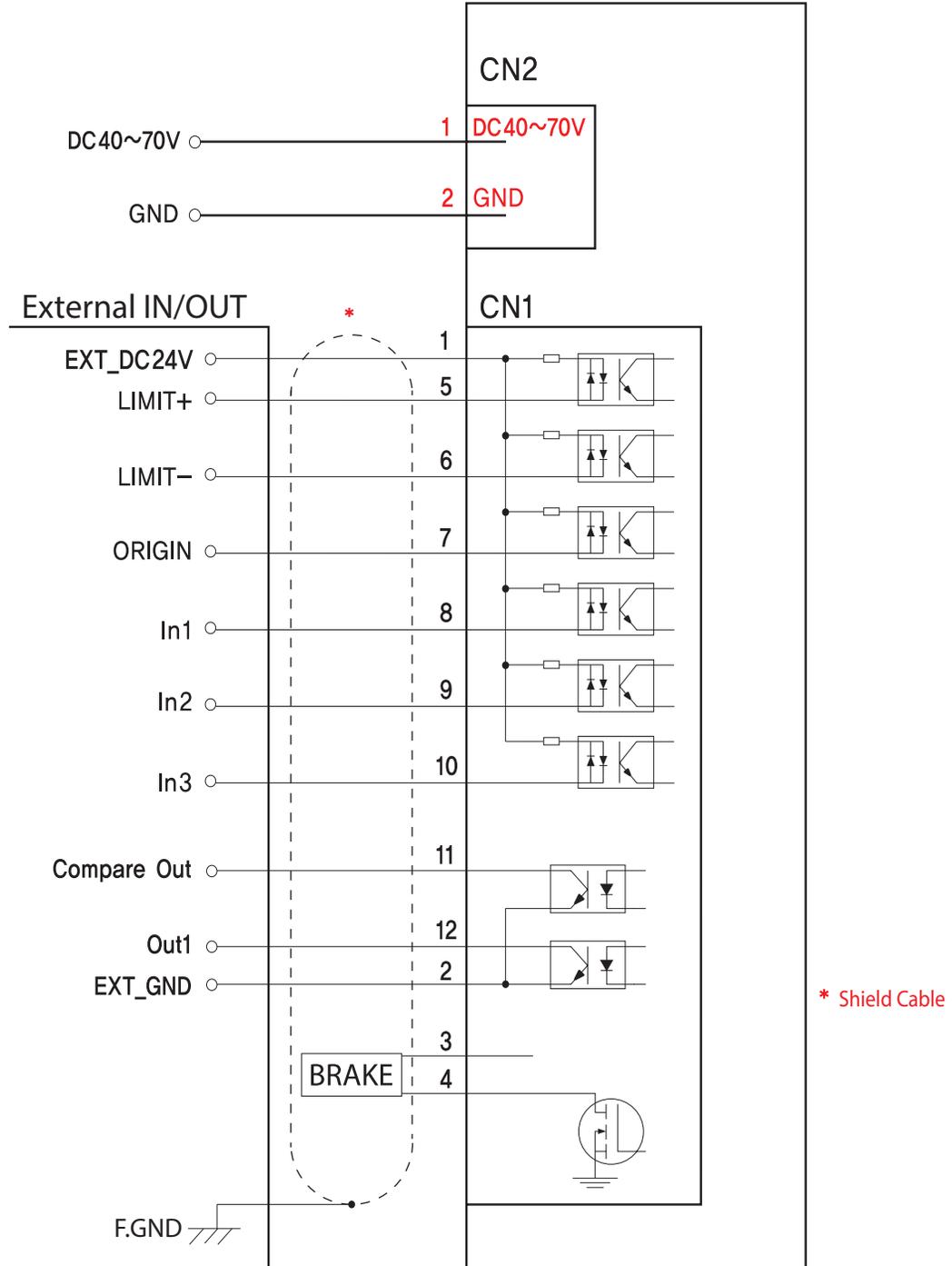
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CAUTION

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● External Wiring Diagram [R Type 86mm]

Ezi-SERVOII Plus-E ALL



* Shield Cable

FASTECH Ezi-SERVOII Plus-E ALL

※ When connects I/O cable between controller and drive, please turn off the power of both controller and drive to prevent electric shock or to protect the drive from any damage.

CAUTION

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MEMO



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