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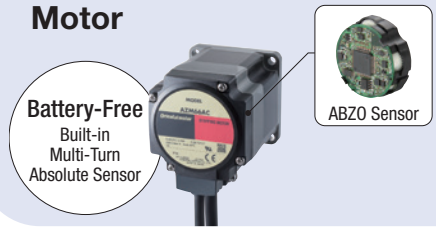
αSTEP

AZ Series with OMRON

αSTEP AZ Series is a stepper based motor equipped with a Battery-Free Absolute Mechanical Sensor (ABZO Sensor). It is optimal for positioning, speed and torque control. It is offered with network compatible drivers to allow easier communication with **Omron** PLCs.

Same driver and software, unified control — EtherNet/IP · EtherCAT · Modbus RTU

Motor



Actuators

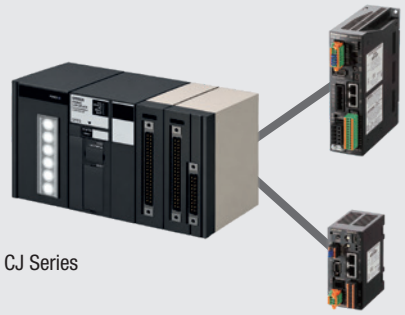
EZS Series · **DR** Series · **DGII** Series · **EH** Series · **L** Series

Available Motor Sizes

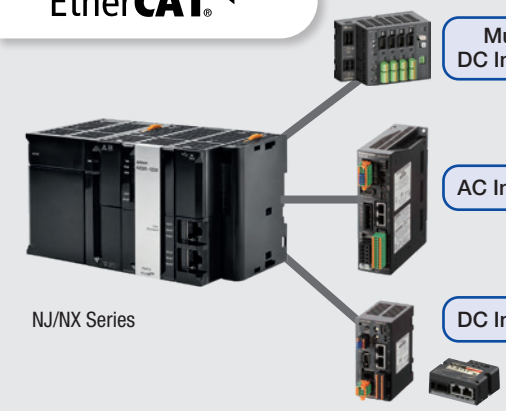
AC Power Supply Input	Frame Size 42 to 90 mm (100 W to 750 W equivalent)
DC Power Supply Input	Frame Size 20 to 60 mm (50 W to 200 W equivalent)

Drivers for Connection with Omron PLC

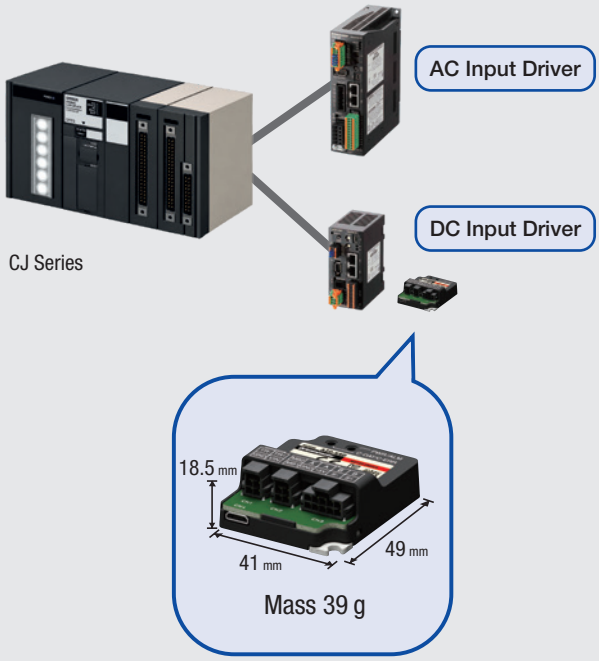
EtherNet/IP



EtherCAT



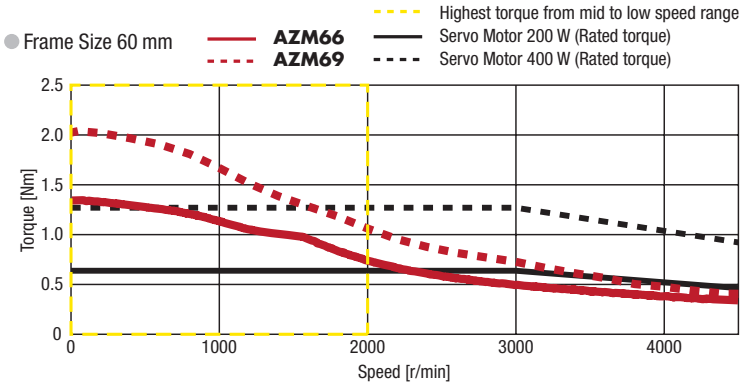
Modbus RTU



AZ Series Compact Driver

Works with **AZ** Series family of products
Compact and lightweight design

Best Performance for Mid to Low Speed Application



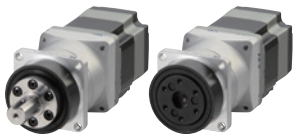
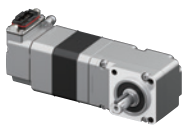
Data for the speed-torque characteristics is based on Oriental Motor's internal measurement conditions. If the conditions are changed, the characteristics may also change as a result.

AZ Series is designed to output the highest torque at mid to low speed range

Suitable for:
- Positioning
- Speed control
- Torque control

Geared Type for High Torque, High Intertia Load Application

The **AZ** Series offers wide selections of geared types assembled at the factory level (excluding Neugart Gear Type). Users can choose the gear types based on requirements such as torque, mounting restrictions and backlashes.

	Parallel Type					Right Angle Type
	TS Taper Hobbed	PS Planetary	Neugart Planetary	HPG Harmonic Planetary	Harmonic Gear	FC Gear (Face Gear)
Gear Type						

Note

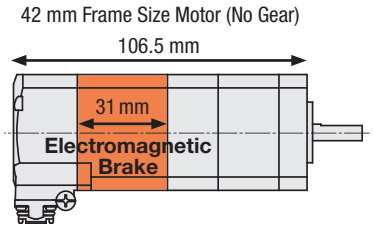
Harmonic Planetary, Harmonic Type and are registered trademarks of Harmonic Drive Systems, Inc.

Electromagnetic Brake Type for Vertical Applications

The **AZ** Series offer motors with Brake assembled at the factory level. It helps vertical applications where the load has to be held for safety even during power outages.

AC input: 42 mm, 60 mm, 85 mm and 90 mm
DC input: 42 mm and 60 mm

✻ For AC input 90 mm, only **AZM98** is available with electromagnetic brake



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These products are manufactured at plants certified with the international standards **ISO 9001** (for quality assurance) and **ISO 14001** (for systems of environmental management). Specifications are subject to change without notice. This catalogue was published in August 2026. Printed in Germany.

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