

Short-Formed, Compact and Energy-conserving,
Brushless DC motor unit

AXUseries

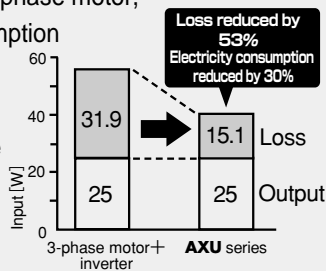
Output: 10W/25W/40W/90W



Energy- and space-saving,
 flat-torque over a wide
 These are truly easy- to

Energy saving

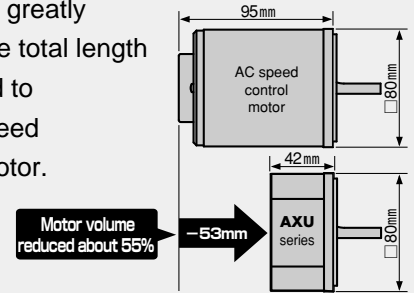
These units use brushless DC motors. Since the efficiency is higher than for an inverter-driven three-phase motor, the electricity consumption is greatly reduced. This contributes to energy saving for the factory as a whole.



For output of 25 W (Comparison with reference measurements by Oriental Motors)

Thin and compact

A brushless DC motor is used for the motor section to greatly reduce the total length compared to an AC speed control motor.



For motor installation dimension of 80 mm X 80 mm and output of 25 W (Oriental Motors' comparison)

NEW

Brushless DC Motor Unit

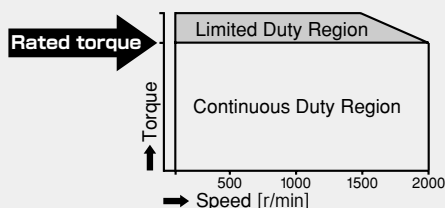
AXU series



easy-to-wire, easy-to-operate, variable range of speeds to use brushless DC motors.

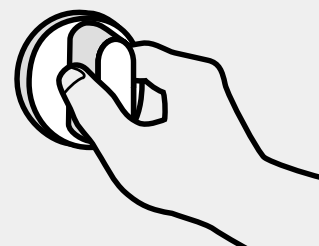
Flat torque

The AXU series output a constant torque from low speed to high speed. Moreover, the new control technique can set the speed over a range from 100 to 2000 r/min (a speed ratio of 1:20).



Easy wiring and easy operation

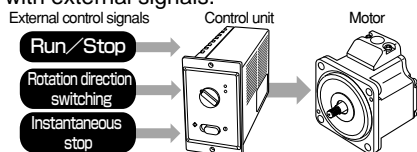
AXU series motors and their control units are connected by just connecting the motor connector to the control unit section. The motor speed can also be set by just turning the speed control on the front of the control unit.



AND

External control possible

Run/Stop, rotation direction, and also instantaneous stops can be controlled with external signals.



Supports GN/GU gearheads

The installation sizes for **AXU** series motors are compatible with those for AC speed control motors. You can continue to use your existing **GN** and **GU** gearheads with **AXU** series motors. Also, the control unit installation dimensions are the same for the US series.

Conforms to safety standards.

Products have met UL and CSA standards, are recognized by UL, and conform to EN standard, CE marking (low voltage directive, EMC directive).

Excellent Speed Stability

The **AXU** series keeps excellent speed stability and can maintain constant speeds.

Speed Regulation: To load: Max.-2%, To voltage: Max.±1%, To temperature: Max.±1%.

Slow start/slow down functions

AXU series can be set for slow start and slow down when they start and stop. These functions provide delicate work feeding and the like.

Motor Construction IP54

The motor has passed the IP54 test of the IEC Standard.

Protection Functions

The **AXU** series is equipped with protection functions for overload, out-of-phase, overvoltage, undervoltage and overspeed conditions.

The motor will come to a stop when the protection functions observe an abnormal condition, and outputs an alarm.

Maximum Extension of 10.5m

The space between motor and control unit can be extended up to 10.5m by using with an extension cable (Sold separately).



10W type



25W type

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Product Lines

Pinion Shaft Types

Voltage	Output Power	Model
Single-phase 200-230V	10W	AXU210CY-GN
	25W	AXU425CY-GN
	40W	AXU540CY-GN
	90W	AXU590CY-GU

Single-phase 110-115V input type models also available.
Please contact your nearest ORIENTAL MOTOR office for details.

Round Shaft Types

Voltage	Output Power	Model
Single-phase 200-230V	10W	AXU210CY-A
	25W	AXU425CY-A
	40W	AXU540CY-A
	90W	AXU590CY-A

Gearhead Types

Gearheads are sold separately.
Use in combination with the pinion shaft type motors.

For **AXU210** types

Model
2GN3K~2GN18K
2GN25K~2GN36K
2GN50K~2GN180K
2GN10XK (Decimal Gearhead)

For **AXU540** types

Model
5GN3K~5GN18K
5GN25K~5GN36K
5GN50K~5GN180K
5GN10XK (Decimal Gearhead)

For **AXU425** types

Model
4GN3K~4GN18K
4GN25K~4GN36K
4GN50K~4GN180K
4GN10XK (Decimal Gearhead)

For **AXU590** types

Model
5GU3KB~5GU9KB
5GU12.5KB~5GU18KB
5GU25KB~5GU60KB
5GU75KB~5GU180KB
5GU10XKB (Decimal Gearhead)



40W type



90W type

Product Number Code

Motor

AXU 5 40 CY - GN

Motor Shaft Type
GN: Pinion shaft
 (for use with **GN**-type gearhead)
GU: Pinion shaft
 (for use with **GU**-type gearhead)
A: Round shaft

Voltage
CY: Single-phase 200-230V

Output Power **10**: 10W
25: 25W
40: 40W
90: 90W

Motor Frame Size **2**: 60mm sq
4: 80mm sq
5: 90mm sq

Series name : **AXU** series

Gearhead

5 GN 50 K

Type
K: Ball bearing type

Gear Ratio
 (Example) **50**: Gear ratio of 50:1 and speed reduction of 1/50

Type
GN: **GN** type (for use with **GN** type pinion shaft motor)
GU: **GU** type (for use with **GU** type pinion shaft motor)

Gearhead Frame Size
2: 60mm sq
4: 80mm sq
5: 90mm sq

Notes
 ※●Gearheads with the same installation dimensions and pinion type can be connected.

Safety Standards and CE Marking

Applicable Standard

	Standards	Certification Body	Standards File No.	CE Marking
Motor	UL1950 CSA 22.2 No.950	UL	E208200	Low Voltage Directive
	EN60950 EN60034-1 EN60034-5	Conform to EN standards		
Control Unit	UL508C CSA 22.2 No.14	UL	E171462	EMC Directive
	EN60950 EN50178	Conform to EN standards		

●EMI

Emission Tests	EN50081-2
Radiated Emission Test	EN55011
Conducted Emission Tests	EN55011

●EMS

Immunity Tests	EN61000-6-2
Radiation Field Immunity Test	IEC61000-4-3
Electrostatic Discharge Immunity Test	IEC61000-4-2
Fast Transient/Burst Immunity Test	IEC61000-4-4
Conductive Noise Immunity Test	IEC61000-4-6
Power Frequency Magnetic Field Immunity Test	IEC61000-4-8
Surge Immunity Test	IEC61000-4-5
Voltage Dips Immunity Test	IEC61000-4-11
Voltage Interruption Immunity Test	IEC61000-4-11

Installation Conditions

- Overvoltage category III, Pollution degree 2, Class I

Operating Conditions

UL/CSA standard

- Surroundings : The control unit case is not recognized as an enclosure.
Products should be used within an enclosure.

EN Standard

- Grounding : Motors and control units have been designed and assessed as Class I equipment.
To avoid electrocution, it is essential that it be earthed or incorporated in other equipment so that it is out of reach.
- Surroundings : The control units are installed and assessed as Pollution Level Class 2. If used in a Pollution Level Class 3 surroundings, an IP54 enclosure must be used for protection.
- EMC : The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor/control unit incorporated in the user's equipment.

Specifications

Unit Name		Rated Output Power	Power Supply Input			Rated Torque	Starting Torque
			Voltage	Frequency	Maximum Input Current		
Pinion shaft type	Round shaft type	W	V	Hz	A	N·m	N·m
AXU210CY-GN	AXU210CY-A	10	Single-phase 200-230V±10%	50/60	0.6	0.05	0.06
AXU425CY-GN	AXU425CY-A	25			0.9	0.125	0.15
AXU540CY-GN	AXU540CY-A	40			1.3	0.20	0.24
AXU590CY-GU	AXU590CY-A	90			2	0.45	0.54

Common Specifications

Item	Specifications
Slow start/Slow down	0.5~10sec. (at 2000r/min with no load) Set by a SSSD volume.
Rotation Speed Control Method	Speed potentiometer at the front panel
Input Signal	Photocoupler input Input impedance 2kΩ Operated by internal power supply Common for CW input and CCW input
Output Signal	PNP transistor output (Source type) External use conditions DC 26.4 V, 10 mA max. SPEED OUT (30P/R)、ALARM OUT
	When the following are activated, the alarm signal will be output and the motor will come to a stop: <ul style="list-style-type: none"> ●Overload Protection : This will be activated when a load exceeding the rated torque is applied to the motor for minimum 5 seconds. ●Overvoltage Protection : This will be activated when the voltage applied to the control unit exceeds 230 VAC by minimum 20%. ●Out-of-Phase Protection : This will be activated when motor signals are abnormal, due to disconnection of cable, etc. ●Under Voltage Protection : This will be activated when the voltage applied to the control unit goes under the 200 VAC by minimum 30%. ●Over Speed Protection : This will be activated when the speed is exceeding 2800 r/min.
Motor Insulation Class	Class E (120°C) ※1
Rating	Continuous

●With the **AXU** series, the motor speed can not be controlled in applications where the motor shaft is turned by the load, as in lowering operations. Also, if the load driven exceeds the permitted load inertia and during load lowering operation, the overvoltage protection function is activated and the motor stops naturally.

※1 Motor insulation is recognized as class A (105°C) by UL and CSA standards.

Round Shaft Type Permissible Inertial Load $J \times 10^{-4} \text{kg} \cdot \text{m}^2$	Rated Speed r/min	Speed Control Range r/min	Speed Regulation		
			For load	For voltage	For temperature
0.5	2000	100~2000 (1:20 speed rate)	-2% max Conditions : 0 ~ rated torque, at rated speed	±1% max Conditions : Power supply voltage ±10%, at rated speed with no load	±1% max Conditions : 0~+40°C, at rated speed with no load
1.8					
3.3					
5.6					

General Specifications

Item	Type	Motor	Control Unit
Insulation Resistance		100 MΩ or more when 500V DC is applied between the windings and the frame	100 MΩ or more when 500V DC is applied between the power supply input terminal and the PE terminal, the power supply input terminal and the I/O terminal.
Dielectric Strength		Sufficient to withstand 1.5kV AC at 50 Hz applied between the windings and the frame for 1 minute.	Sufficient to withstand 1.8 kV (3 kV)AC at 50Hz applied between the P.E. terminal (I/O terminal) and the power supply input terminal for 1 minute.
Operating	Ambient Temperature	0°C ~ +50°C* (no freezing)	0°C ~ +40°C (no freezing)
Environmental	Ambient Humidity	85% max (noncondensing)	
Conditions	Atmosphere	No corrosive gases or dust	
Degree of Protection		IP54 (For round shaft type, does not include output shaft)	IP10

Note : For the round shaft type, please attach to the following size metal plate size to hold the motor case temperature to no more than 90°C

AXU210CY-A: 135mm×135mm 5mm thick **AXU425CY-A**: 165mm×165mm 5mm thick

AXU540CY-A: 200mm×200mm 5mm thick **AXU590CY-A**: 200mm×200mm 5mm thick

* Recognized as ambient temperature 0°C~+40°C by UL/CSA standard.

Permissible Torque When Gearhead is Attached

When installing a gearhead on a pinion shaft type motor, the motor output torque can be increased with the gearhead speed reduction ratio as shown in the table below.

Also, when connecting an decimal gear head with a speed reduction ratio of 10:1 between the motor and the gear head, the rotation rate can be reduced.

The permitted torques when connecting an decimal gearhead with a speed reduction ratio of 10 are limited as follows by the strength of the gearhead.

For **2GN□K** 3N·m

For **4GN□K** 8N·m (However, 6N·m when 1/25~1/36 gear head connected)

For **5GN□K** 10N·m

For **5GU□KB** 20N·m

Unit=N·m

Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
Speed Range [r/min]	33	28	20	17	13	11	8	6.7	5.6	4	3.3	2.8	2	1.7	1.3	1.1	1	0.83	0.67	0.56
Model	667	556	400	333	267	222	160	133	111	80	67	56	40	33	27	22	20	17	13	11
AXU210CY-GN /2GN□K	0.12	0.15	0.2	0.24	0.3	0.36	0.51	0.61	0.73	0.91	1.1	1.3	1.7	2	2.5	3	3	3	3	3
AXU425CY-GN /4GN□K	0.3	0.36	0.51	0.61	0.76	0.91	1.3	1.5	1.8	2.3	2.7	3.3	4.1	5	6.2	7.4	8	8	8	8
AXU540CY-GN /5GN□K	0.49	0.58	0.81	0.97	1.2	1.5	2.0	2.4	2.9	3.7	4.4	5.3	6.6	7.9	9.9	10	10	10	10	10
AXU590CY-GU /5GU□KB	1.1	1.3	1.8	2.2	2.7	3.3	4.1	4.9	5.9	7.4	8.9	10.7	14.9	17.8	19.9	20	20	20	20	20

●Enter the gear ratio in the box □ within the model number. ●Rotation direction : □ color rotates in the same direction as the motor; others rotate in the opposite direction.

Permissible Thrust Load, Permissible Overhung Load

●Gearhead

Gearhead	Gear Ratio	Permissible Overhung Load [N]		Permissible Thrust Load N
		10 mm from tip of the shaft	20 mm from tip of the shaft	
2GN□K	3~18	50	80	30
	25~180	120	180	
4GN□K	3~18	100	150	50
	25~180	200	300	
5GN□K	3~18	250	350	100
	25~180	300	450	
5GU□K	3~9	400	500	150
	12.5~18	450	600	
	25~180	500	700	

●Enter the gear ratio in the box (□)within the model number.

●Round Shaft Type

Model	Permissible Overhung Load [N]	
	10 mm from tip of the shaft	20 mm from tip of the shaft
AXU210CY-A	70	100
AXU425CY-A	120	140
AXU540CY-A	160	170
AXU590CY-A	160	170

●Avoid applying thrust loads as much as possible. If thrust load is unavoidable, keep it to no more than half the motor weight.

Permissible Inertial Load J

When using a gearhead, use in such a way that the overhang load and thrust load on the gearhead output shaft do not exceed the values in the table below.

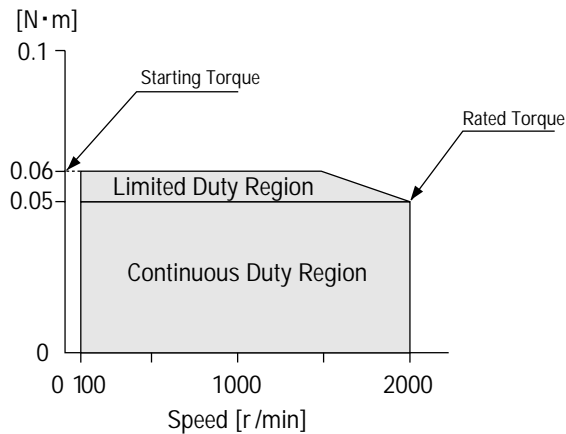
Unit= $J(\times 10^{-4} \text{kg} \cdot \text{m}^2)$

Model \ Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180			
AXU210CY-GN /2GN□K	0.558	0.804	1.55	2.23	3.49	5.02	9.69	14	20.1	38.8	55.8	80.4	155	155	155	155	155	155	155	155	155		
AXU425CY-GN /4GN□K	1.98	2.85	5.5	7.92	12.4	17.8	34.4	49.5	71.3	138	198	285	550	550	550	550	550	550	550	550	550	550	
AXU540CY-GN /5GN□K	3.6	5.18	10	14.4	22.5	32.4	62.5	90	130	250	360	518	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
AXU590CY-GU /5GU□KB	9	13	25	36	56.3	81	156	225	324	625	900	1296	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500

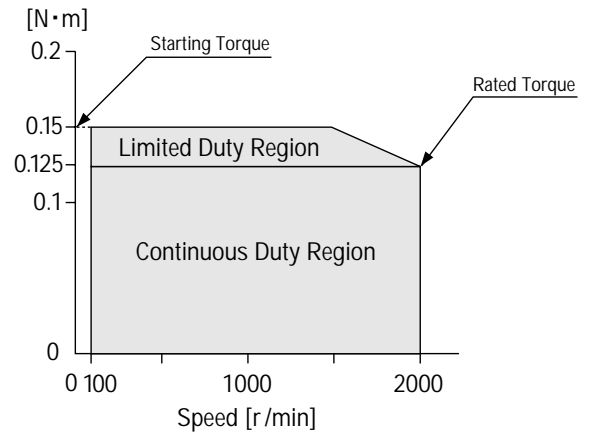
●Enter the gear ratio in the box □ within the model number.

Torque – Speed Characteristics

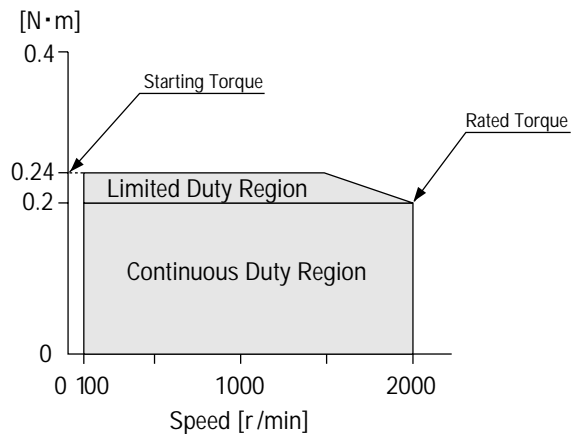
AXU210CY-GN
AXU210CY-A



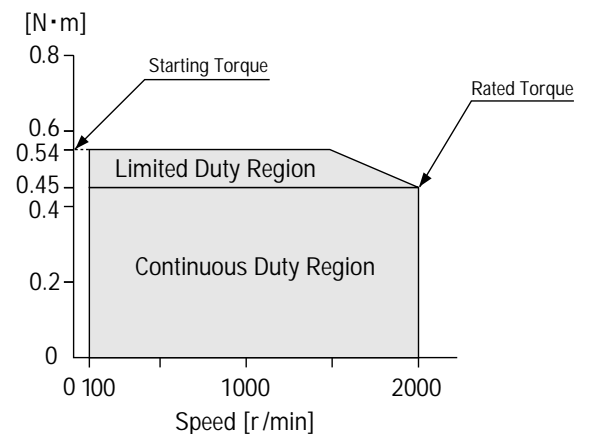
AXU425CY-GN
AXU425CY-A



AXU540CY-GN
AXU540CY-A



AXU590CY-GU
AXU590CY-A



Dimensions

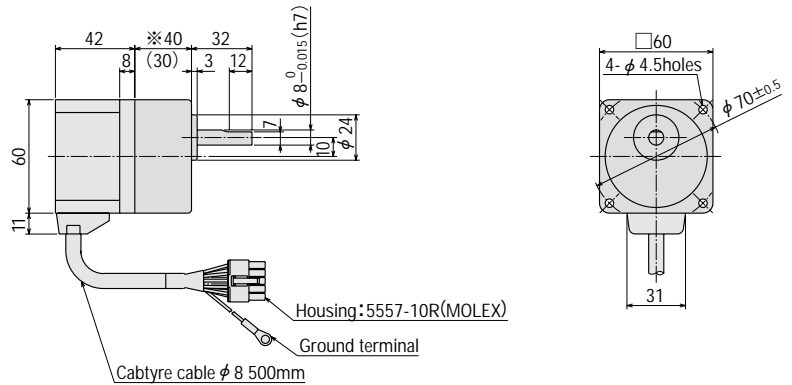
Scale 1/4 : mm

10W Types (Pinion Shaft Type)

Unit Names : **AXU210CY-GN**

Motor : AXUM210-GN/gearhead : **2GN□K**

Mass : 0.9kg (including gearhead)

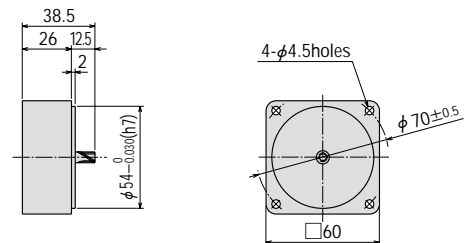


※Dimensions are for the **2GN25K~180K**
The figures in parentheses are for the **2GN3K~18K**

10W type Decimal Gearhead

Model : **2GN10XK**

Mass : 0.2kg

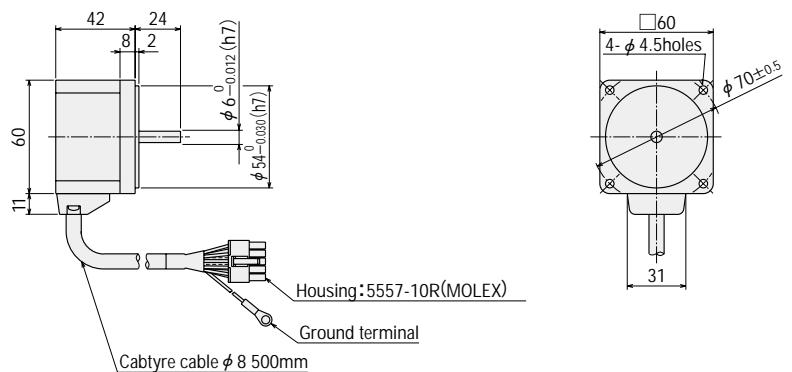


10W Types (Round Shaft Type)

Unit Names : **AXU210CY-A**

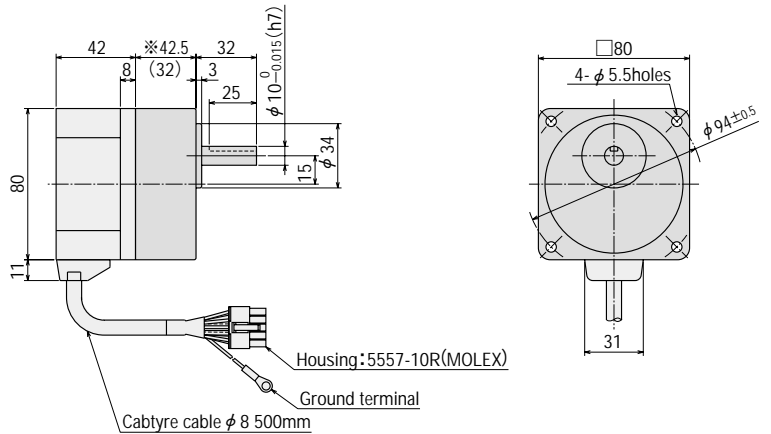
Motor : AXUM210-A

Mass : 0.5kg



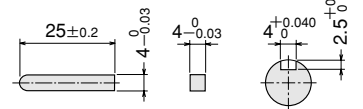
25W Types (Pinion Shaftn Type)

Unit Names : **AXU425CY-GN**
 Motor : AXUM425-GN/gearhead **4GN□K**
 Mass : 1.45kg (including gearhead)



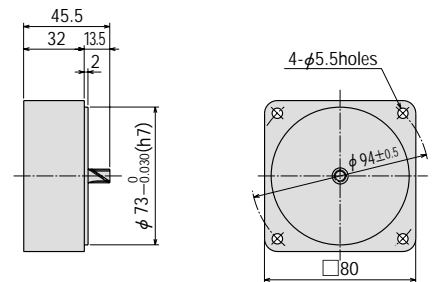
※The dimensions are for the **4GN25K~180K**
 The figures in parentheses are for the **4GN3K~18K**

●Key and key groove (gearhead accessory)



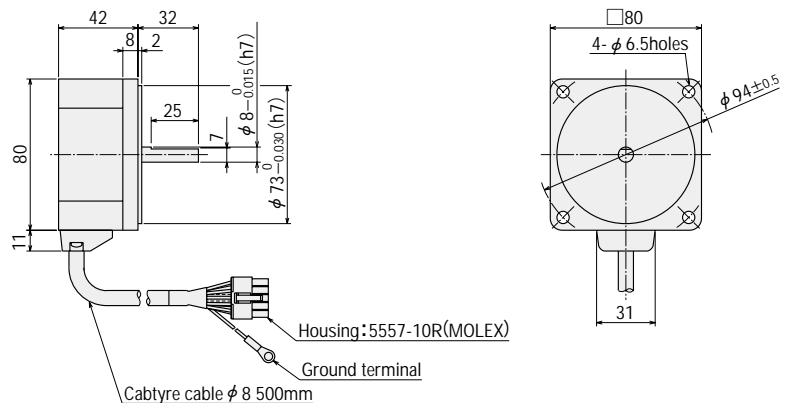
25W type Decimal Gearhead

Model : **4GN10XK**
 Mass : 0.4kg



25W Types (Round Shaft Type)

Unit Names : **AXU425CY-A**
 Motor : AXUM425-A
 Mass : 0.8kg

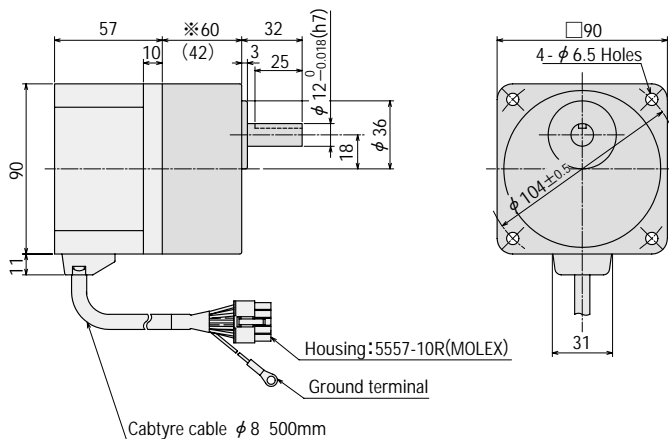


40W Types (Pinion Shaft Type)

Unit Names : **AXU540CY-GN**

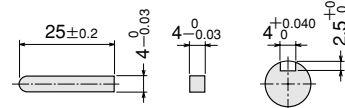
Motor : AXUM540-GN/gearhead : **5GN□K**

Mass : 2.9kg(including gearhead)



※The dimensions are for the **5GN25K~180K**
The figures in parentheses are for the **5GN3K~18K**

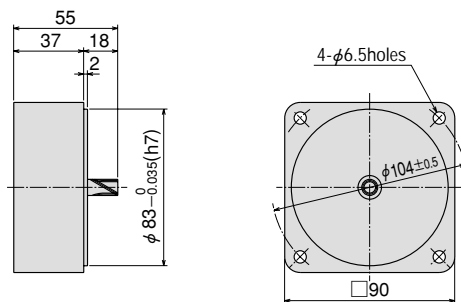
●Key and key groove (gearhead accessory)



40W type Decimal Gearhead

Model : **5GN10XK**

Mass : 0.6kg

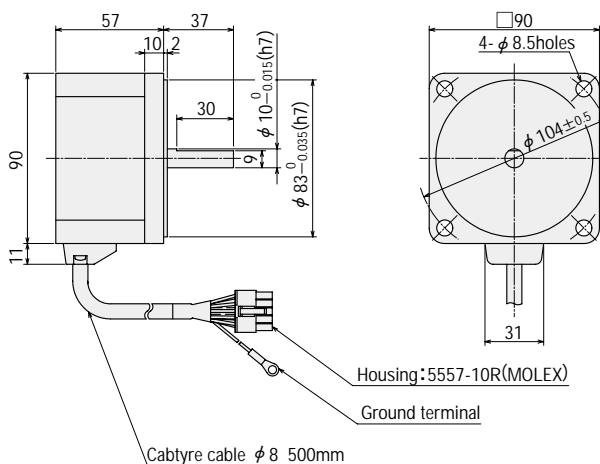


40W Types (Round Shaft Type)

Unit Names : **AXU540CY-A**

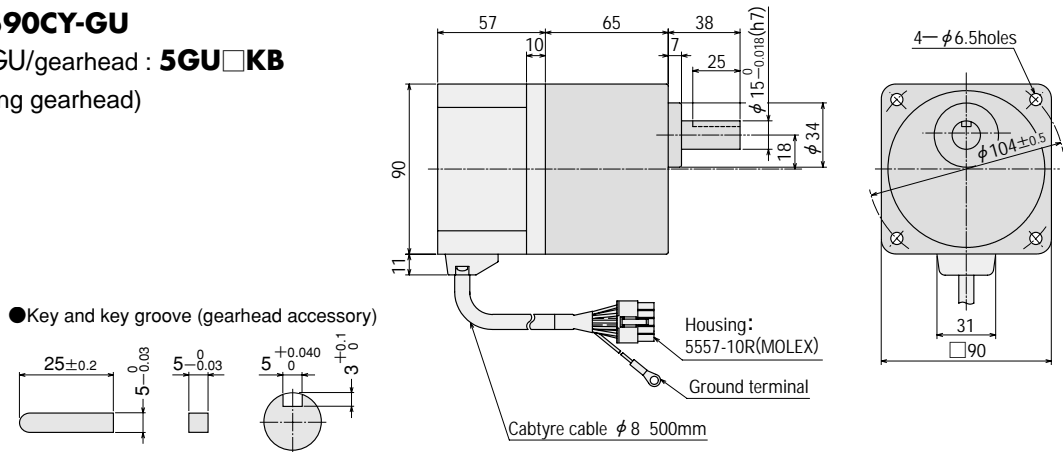
Motor : AXUM540-A

Mass : 1.4kg



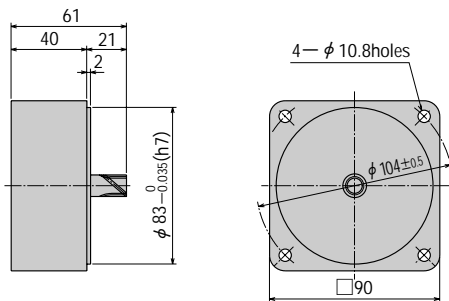
90W Types (Pinion Shaft Type)

Unit Names : **AXU590CY-GU**
 Motor : AXUM590-GU/gearhead : **5GU□KB**
 Mass : 2.9kg (including gearhead)



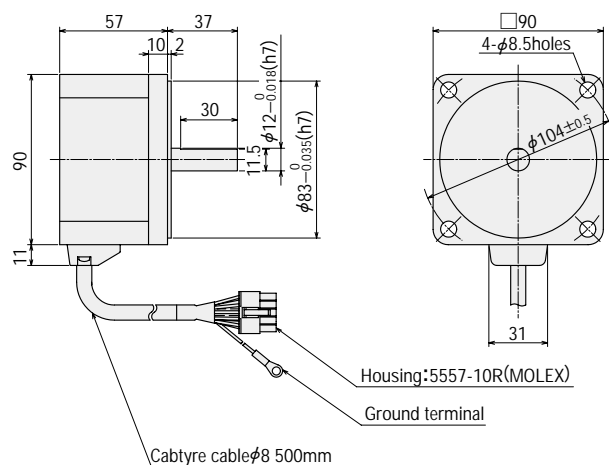
90W type Decimal Gearhead

Model : **5GU10XKB**
 Mass : 0.6kg



90W Types (Round Shaft Type)

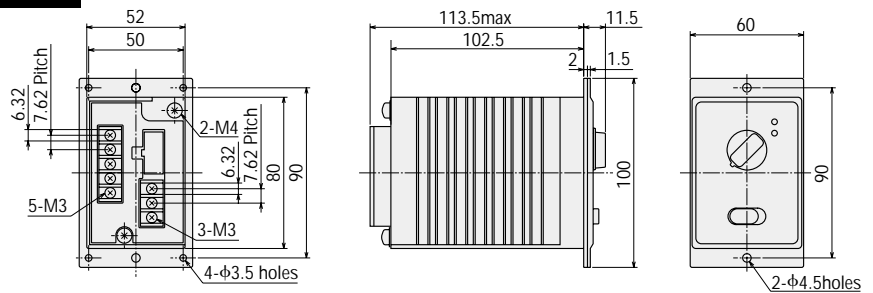
Unit Names : **AXU590CY-A**
 Motor : AXUM590-A
 Mass : 1.4kg



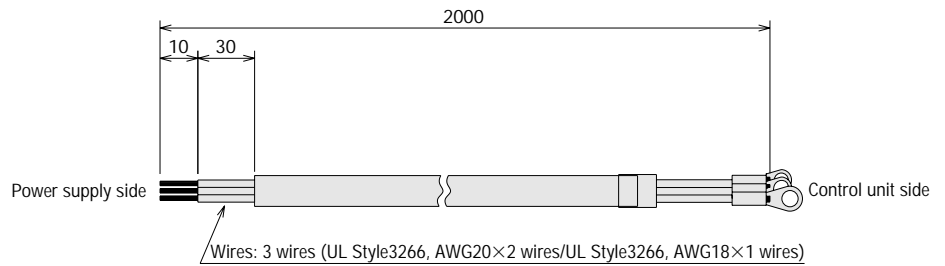
Control Units (Common)

AXUD10CY
 AXUD25CY
 AXUD40CY
 AXUD90CY
 Mass : 0.4kg

Main unit



Control Unit Power Supply Cables (Accessory)



Motor and Control Unit Combinations

The unit names for motors and control units are as follows.
 The unit names (written in bold) are for customers placing orders; the motors and control units are not shown.

Pinion Shaft Types

Unit Name	Motor Name	Control Unit Name
AXU210CY-GN	AXUM210-GN	AXUD10CY
AXU425CY-GN	AXUM425-GN	AXUD25CY
AXU540CY-GN	AXUM540-GN	AXUD40CY
AXU590CY-GU	AXUM590-GU	AXUD90CY

Round Shaft Types

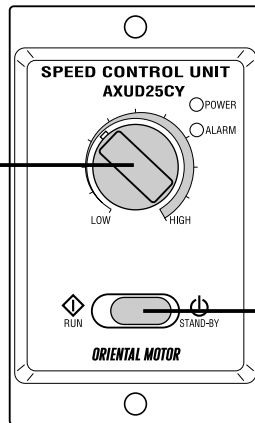
Unit Name	Motor Name	Control Unit Name
AXU210CY-A	AXUM210-A	AXUD10CY
AXU425CY-A	AXUM425-A	AXUD25CY
AXU540CY-A	AXUM540-A	AXUD40CY
AXU590CY-A	AXUM590-A	AXUD90CY

Instruction for the AXU Series

Operating Method

Speed setting Potentiometer

Turning the potentiometer in the clockwise direction causes the speed to be increased. The speed can be set in the range from 100 to 2000 r/min. It is set to 0 r/min at the time of shipment.



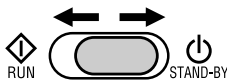
RUN/STAND-BY Switch

Note

The RUN/STAND-BY switch is not a power ON/OFF switch. When you want to stop the motor for a long time, turn off the control unit power.

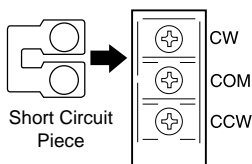
Stand Alone Operation (Using the Short Circuit Piece)

When the RUN/STAND-BY switch is set to the RUN position, the motor drives. When it is set to the STAND-BY position, the motor stops.

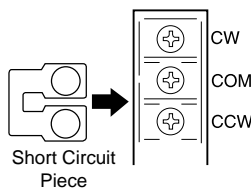


The direction of rotation depends on how the short circuit piece is connected.

Clockwise direction



Counterclockwise direction

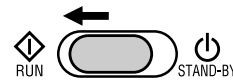


Connect the short circuit piece between the CW and COM or CCW and COM.

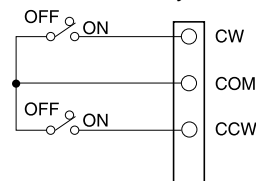
Do not use the short circuit piece for any other purpose.

Operating by External Signals

Set the RUN/STAND-BY switch to the RUN position.

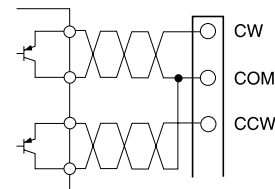


① Small-capacity switch and relay



Use a small-capacity contact type relay capable of opening and closing DC 12 V, 5 mA.

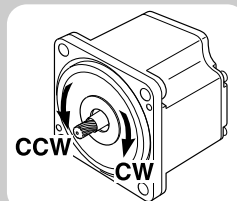
② Transistor output type controller



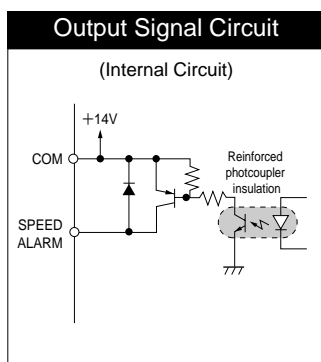
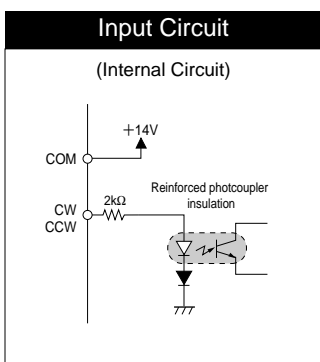
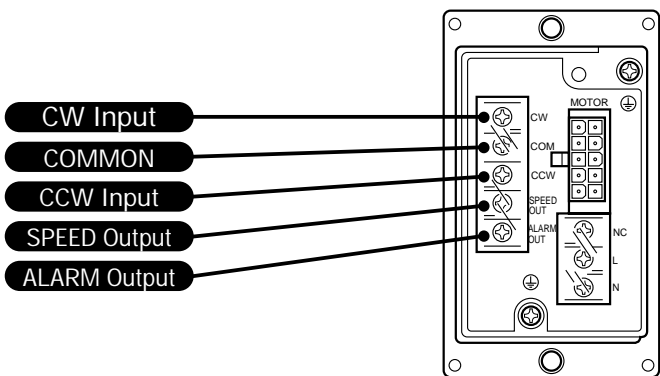
- When CW input is turned on, the motor drives in the clockwise direction. When CW input is turned off, the motor stops.

- When CCW input is turned on, the motor drives in the counterclockwise direction. When CCW input is turned off, the motor stops.

- ◆ When both the CW and CCW inputs are turned on, the motor stops instantly. Instantaneous reverse drive is not possible.



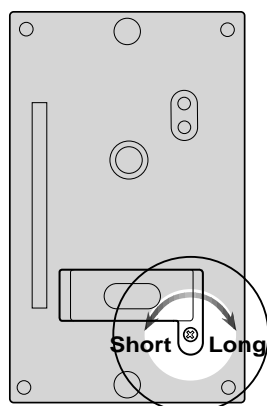
Input Signals and Output signals



The direction of rotation is the direction where the motor output shaft is driven when viewed from the motor output shaft side. The direction of gear output shaft rotation may be the reverse of the motor drive direction, depending on the speed reduction ratio of the gearhead.

Setting the Slow start/Slowdown Time

The motor starts slowly when it starts up and stops slowly when it stops. This slow start and slowdown time can be set within the range from 0.5 to 10 sec. (2000 r/min without load). The time can be set using the slowstart/slowdown potentiometer. Remove the front panel of control unit to



access the potentiometer.
 ※The figure shows the state with the front panel removed.

Slow Start/Slowdown Time Setting Potentiometer.

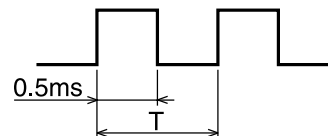
The time is increased by turning the switch to the clockwise direction. Use a Philips screwdriver for this operation. The shortest time is selected at the time of shipment.

Speed Output

The speed output signal is synchronized with motor drive, the system outputs pulses (with a width of about 0.5 ms) at a rate of 30 pulses per rotation of the motor output shaft. You can measure the speed output frequency and calculate motor speed.

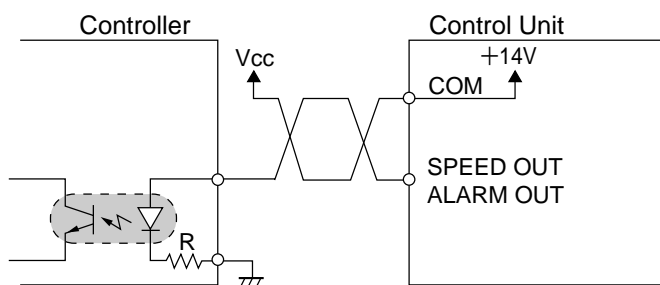
$$\text{Motor Speed (r/min)} = \frac{\text{Speed Output Frequency (Hz)}}{30} \times 60$$

$$\frac{1}{T} = \text{Speed Output Frequency (Hz)}$$



Output Signal Connection

The signal output is PNP transistor output (source type). Use the power source of 26.4 VDC or less to connect the limit resistance (R) so that output current does not exceed 10 mA.



Note

- When you want to extend the input/output signal cable, the length must not exceed 2m. The cable should be as short as possible in order to minimize noise.
- The input/output signal cable should be connected to lay perpendicularly to the power cable and the motor cable, not run parallel with the power cable and motor.

Connection Methods

Motor Connection

To expand the distance between the motor and control unit, use the optional extension cable.

The connection can be extended to a maximum of 10.5 m.

Cautions for Use

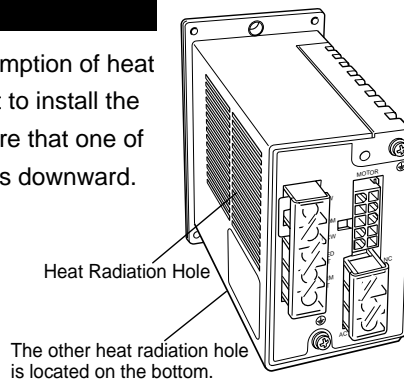
Do not use a solid state relay (SSR) to turn on or off power.

The motor control unit may be damaged if it is used.

Installation of the Control Unit

Direction for Installation

The control unit is designed based on the assumption of heat radiation due to air convection. When you want to install the control unit inside the housing, install it to ensure that one of two heat radiation holes of the control unit faces downward.



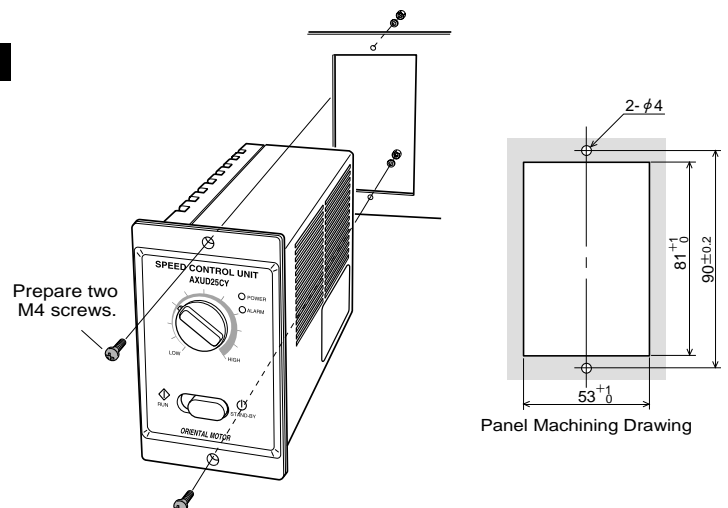
Notes

- Install the control unit 25mm or more away from the housing and other equipment inside the housing in the horizontal direction, and 50mm or more away in the vertical direction.
- Do not install equipment that generates a great deal of heat or noise near the control unit.
- If the ambient temperature of the control unit exceeds 40°C, review the ventilation conditions or forcibly cool control unit with a fan.

Installation Method (When mounting the unit by drilling a rectangular hole)

Use the control unit mounting holes and mount the unit with two M4 flat countersink head screws and nuts. Make sure there is no gap with the metal plate for heat radiation.

Prepare two M4 screws.



Options

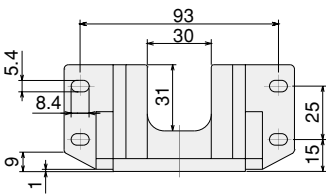
Mounting Brackets

Applicable Units	Mounting Bracket
AXU210 types	SOL2M4
AXU425 types	SOL4M5 (For Gearhead) SOL4M6 (For Round Shaft Type)
AXU540 types	SOL5M6 (For Gearhead) SOL5M8 (For Round Shaft Type)
AXU590 types	SOL5M6 (For Gearhead) SOL5M8 (For Round Shaft Type)

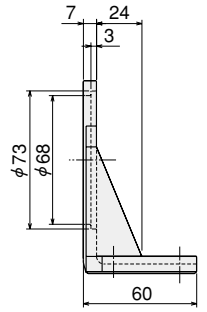
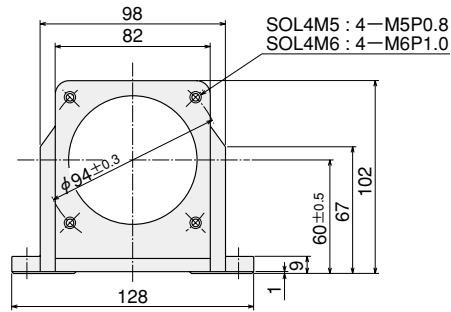
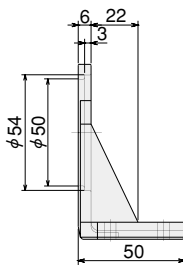
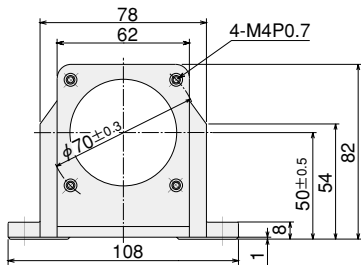
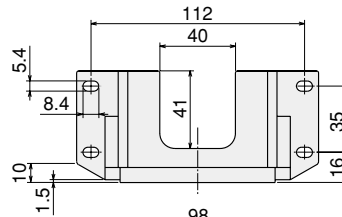
These brackets come with tapped holes. To mount a motor and gearhead, simply fasten with the screws that come with the gearhead.



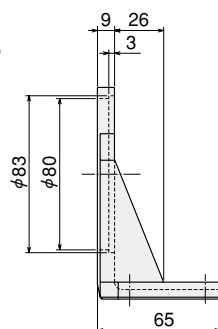
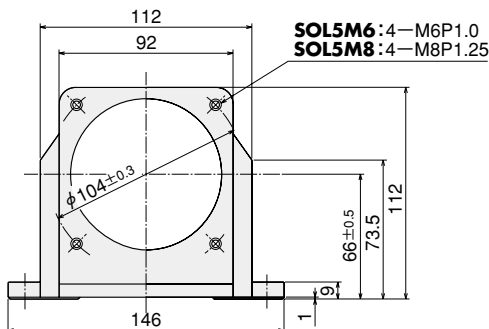
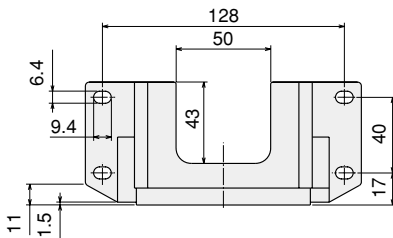
Model : **SOL2M4** Mass : 135g
Material : Aluminum alloy



Model : **SOL4M5, SOL4M6** Mass : 210g
Material : Aluminum alloy



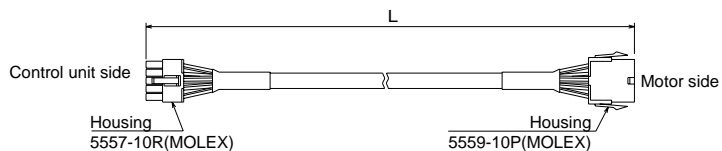
Model : **SOL5M6, SOL5M8** Mass : 270g Material : Aluminum alloy



Extension Cables

A cable of 0.5 m comes with the motor. An optional cable can be used to extend the cable up to 10.5 m.

Model	Length L (m)
CC01AXU	1
CC02AXU	2
CC03AXU	3
CC05AXU	5
CC10AXU	10



This product is manufactured at a plant certified with the international standards **ISO 9001** (for quality assurance) and **ISO 14001** (for systems of environmental management).

Specifications subject to change without notice.

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