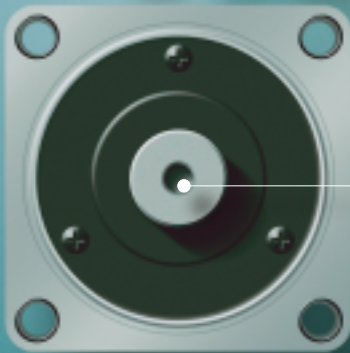


**FUJI SERVO SYSTEM**

# FALDIC-W Series

FUJI SERVO SYSTEM



- Wide Range
- 3000 r/min type  
0.05 kw-----0.75 kw
- 2000 r/min type  
0.5 kw-----2 kw
- 1500 r/min type  
0.5 kw-----1.3 kw

# FALDIC-W

SIMPLE & SMART

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Simple & Smart

Servo system for evolving machines

# FALDIC W

FUJI SERVO SYSTEM

The FALDIC-W – a brand new basic model of the FALDIC Series inheriting the functions and performance of the FALDIC- $\alpha$  and FALDIC- $\beta$ . The FALDIC Series keeps evolving to meet all market requirements.

The new FALDIC-W has been developed with a built-in 17-bit encoder as a standard feature. In addition to Vibration Suppressing Control as a standard FALDIC series servo system feature, you can select the rated motor speed as desired to match your particular application.



# Wide Range

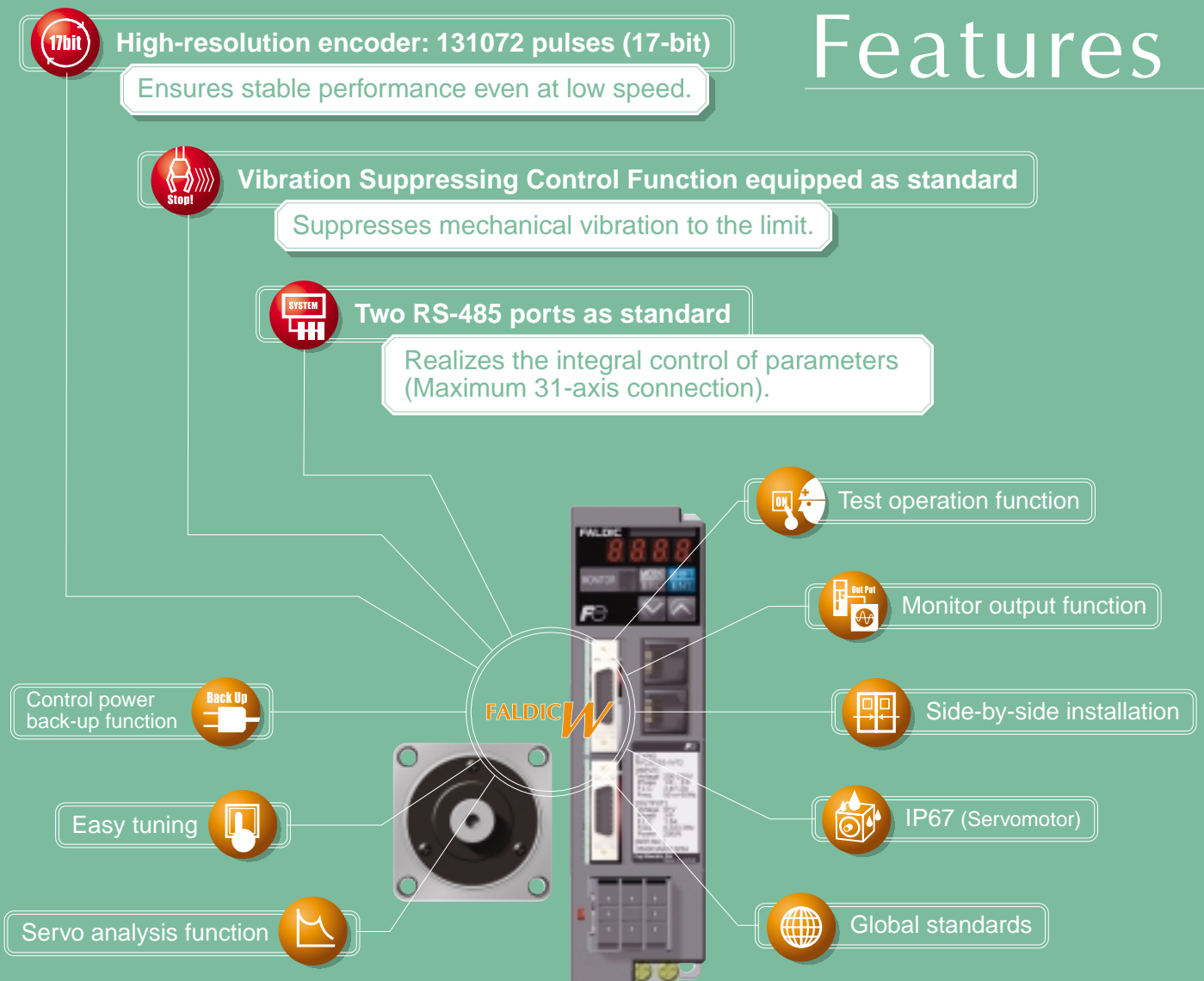
0.05 kW   0.1 kW   0.2 kW   0.4 kW   0.5 kW   0.75 kW   0.85 kW   1 kW   1.3 kW   1.5 kW   2 kW

**Low Inertia Series (GYS Motor)**  
Rated speed: 3000 r/min

**Middle Inertia Series (GYG Motor)**  
Rated speed: 2000 r/min

**Middle Inertia Series (GYG Motor)**  
Rated speed: 1500 r/min

## Features



## Low Inertia Series (GYS Motor)

Rated speed: **3000 r/min**

Input power supply	Rated output	Motor type (standard type)	Amplifier type
Single-phase 200 to 230V	0.05 kW	GYS500DC2 – T2A	RYC500D3 – VVT2
	0.1 kW	GYS101DC2 – T2A	RYC101D3 – VVT2
	0.2 kW	GYS201DC2 – T2A	RYC201D3 – VVT2
Single-phase or 3-phase 200 to 230V	0.4 kW	GYS401DC2 – T2A	RYC401D3 – VVT2
	0.75 kW	GYS751DC2 – T2A	RYC751D3 – VVT2



3000 r/min type

## Middle Inertia Series (GYG Motor)

Rated speed: **2000 r/min**

Input power supply	Rated output	Motor type (standard type)	Amplifier type
Single-phase or 3-phase 200 to 230V	0.5 kW	GYG501CC2 – T2E	RYC501C3 – VVT2
	0.75 kW	GYG751CC2 – T2E	RYC751C3 – VVT2
3-phase 200 to 230V	1 kW	GYG102CC2 – T2E	RYC102C3 – VVT2
	1.5 kW	GYG152CC2 – T2E	RYC152C3 – VVT2
	2 kW	GYG202CC2 – T2E	RYC202C3 – VVT2



2000 r/min type

## Middle Inertia Series (GYG Motor)

Rated speed: **1500 r/min**

Input power supply	Rated output	Motor type (standard type)	Amplifier type
Single-phase or 3-phase 200 to 230V	0.5 kW	GYG501BC2 – T2E	RYC501B3 – VVT2
	0.85 kW	GYG851BC2 – T2E	RYC851B3 – VVT2
3-phase 200 to 230V	1.3 kW	GYG132BC2 – T2E	RYC132B3 – VVT2



1500 r/min type

## Other features



### Control power back-up function

Besides the main power input, a control power back-up function is equipped, which is helpful in backing up sensor positions. This system cuts off the main power supply in an emergency, so you do not need to return to the original position each time.



### Easy tuning

The servo amplifier itself automatically performs auto tuning by left and right movements. Optimum tuning between the machine and servomotor is attained before positioning adjustment by the host controller.



### Servo analysis function

This is a tool installed in the loader to be equipped with a personal computer, which analyzes the "resonance frequencies" inherent in each machine to make effective use of the "vibration suppressing control function," the "Notch Filter," etc.



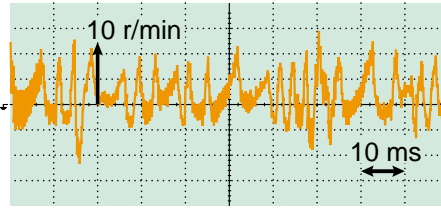
### Test operation function

Continuous reciprocation is supported in addition to JOG operation in a single direction. You can easily check the effective torque by rough actual operation before preparing the host controller.

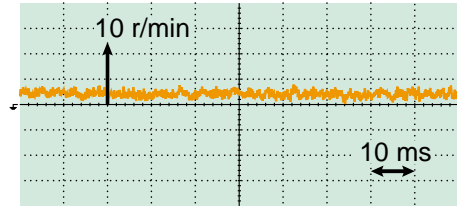
## Ensures stable performance even at low speed.

### High-resolution encoder generating 131072 pulses installed

Higher resolution reduces rotational fluctuation, achieving smooth machine motions.



Conventional encoder (equivalent to 8192 pulses)



17-bit encoder (131072 pulses)

#### Feature 1



High-resolution encoder

## Suppresses mechanical vibration to the limit.

Our original vibration suppressing control function (patent pending)

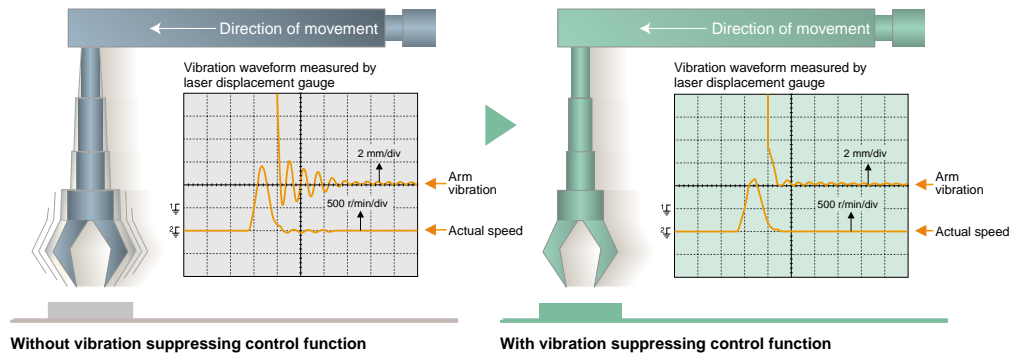
### A "Vibration Suppressing Control Function" is introduced, which is effective in controlling robot arm end vibration.

Fuji's original "Vibration Suppressing Control Function" is installed as a standard feature. It effectively reduces vibration, especially for low-rigidity units such as a robot arm end, and minimizes machine cycle time.

#### Feature 2



Vibration Suppressing Control Function



## Realizes the integral control of parameters.

### Two RS-485 ports as standard

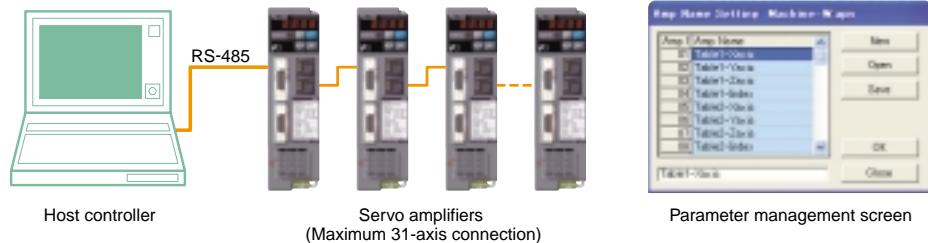
RS-485 links the host controller to each servo amplifier, enabling the integral control of the servo amplifier parameters by the host controller.

#### Feature 3



Integral control of parameters

#### Image of system configuration



Host controller

Servo amplifiers  
(Maximum 31-axis connection)

Parameter management screen



Monitor output function

An analog monitor output function is equipped on the front of the servo amplifier. Connect a special connector to it to observe signals. Two signals can be observed from the return speed, torque command, positional deviation, etc.



Side-by-side installation

Servo amplifiers can be installed side by side, which saves space required to install them in the machine enclosure.



IP67 (Servomotor)

The servomotor complies with IP67\* and can, therefore, be used in an environment where it is exposed to water or dust.

\*Excluding the shaft sealing and connector of the GYS motors and the axis through portion of the GYG motors.



Global standards

The FALDIC-W adopts global specifications to support the "CE marking" and "UL/cUL" standards.

\*Applications for certification by these standards are being filed.

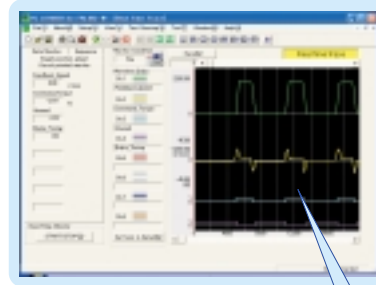
# Operation and Indication

## Personal computer loader

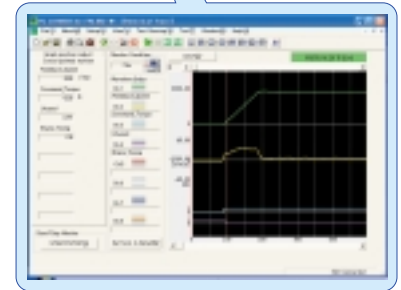
The loader software for personal computers for the FALDIC-W Series can be downloaded from our website.  
<http://www.fujielectric.co.jp/fcs/>



Menu screen



Real-time trace



Historical trace

You can set the following with the personal computer loader:

- (1) **Real-time trace** : Speeds and torque curves can be continuously obtained.
- (2) **Historical trace** : Shorter, more detailed curves than real-time trace can be obtained.
- (3) **Monitor 2** : I/O can be checked and alarm history and the system configuration can be monitored.
- (4) **Parameter edit** : Parameters can be edited, transferred, compared, and initialized.
- (5) **Communication setting** : Set the conditions for communication between the servo amplifier and the personal computer.
- (6) **Easy tuning** : The servomotor is automatically reciprocated with easy settings to adjust it to the auto tuning gain suitable for the machine system.
- (7) **Servo analysis** : Inspects the resonance and antiresonance points of the machine system. The effect of the Notch Filter can also be checked.

## Keypad

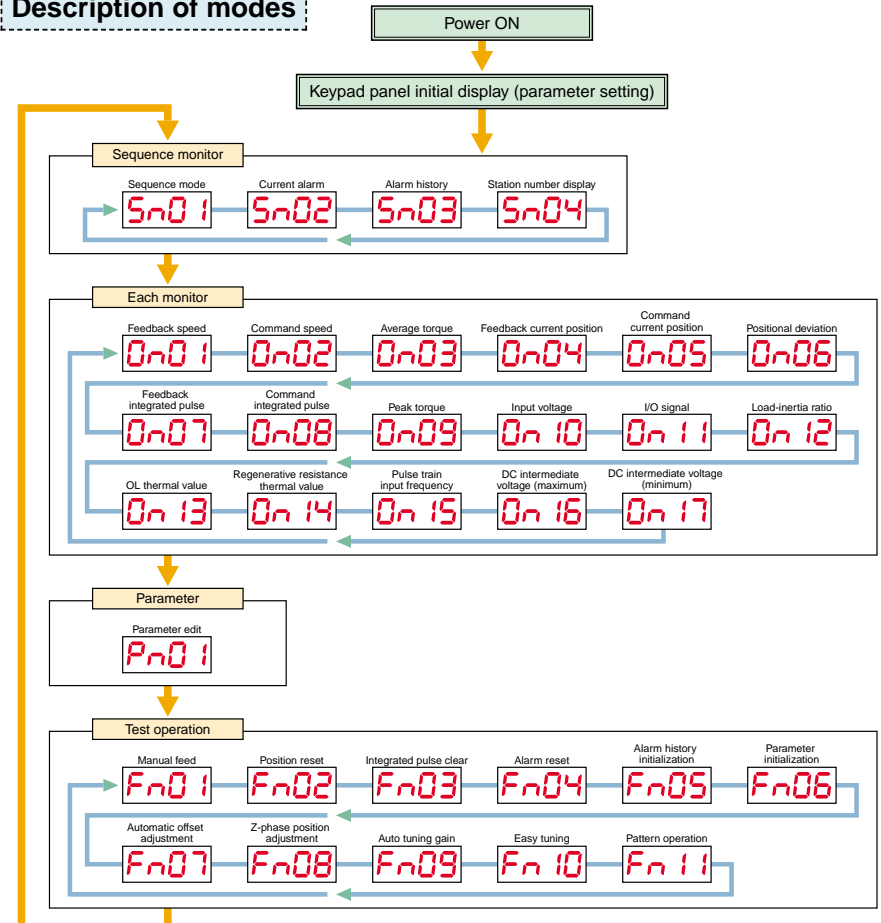
The keypad allows you to use the similar functions as with the personal computer loader.



\*The keypad does not display trace but displays a value.

- Mode change key (MODE/ESC)**
  - Changes the mode (MODE).
  - Cancels the mode (ESC).
- Shift/Enter key (SHIFT/ENT)**
  - Shifts the data setting digit to the right (SHIFT + MODE).
  - Determines the mode or the value (ENT).
- Sub-mode selection key (UP)**
  - Increases the value (+1).
- Sub-mode selection key (DOWN)**
  - Decreases the value (-1).

### Description of modes



## Explanation of Model Codes

### Servo amplifier

**R Y C 5 0 0 D 3 - V V T 2**

Code	[Basic type]
RYC	FALDIC-W Series

Code	[Applicable motor output]
500	$50 \times 10^0 = 0.05$ kW
101	$10 \times 10^1 = 0.1$ kW
201	$20 \times 10^1 = 0.2$ kW
401	$40 \times 10^1 = 0.4$ kW
501	$50 \times 10^1 = 0.5$ kW
751	$75 \times 10^1 = 0.75$ kW
851	$85 \times 10^1 = 0.85$ kW
102	$10 \times 10^2 = 1$ kW
132	$13 \times 10^2 = 1.3$ kW
152	$15 \times 10^2 = 1.5$ kW
202	$20 \times 10^2 = 2$ kW

Code	[Series]
D	3000 r/min
C	2000 r/min
B	1500 r/min

Code	[Order of development]
3	

Code	[Input voltage]
2	AC 200 V series

Code	[Encoder]
T	17-bit INC

Code	[Upper interface]
V	DI/DO (speed)

Code	[Major functions]
V	Pulse train/speed control

### Servomotor

**G Y S 5 0 0 D C 2 - T 2 A - B**

Code	[Basic type]
GYS	Low inertia type
GYG	Middle inertia type

Code	[Rated output]
500	$50 \times 10^0 = 0.05$ kW
101	$10 \times 10^1 = 0.1$ kW
201	$20 \times 10^1 = 0.2$ kW
401	$40 \times 10^1 = 0.4$ kW
501	$50 \times 10^1 = 0.5$ kW
751	$75 \times 10^1 = 0.75$ kW
851	$85 \times 10^1 = 0.85$ kW
102	$10 \times 10^2 = 1$ kW
132	$13 \times 10^2 = 1.3$ kW
152	$15 \times 10^2 = 1.5$ kW
202	$20 \times 10^2 = 2$ kW

Code	[Rated speed]
D	3000 r/min series
C	2000 r/min series
B	1500 r/min series

Code	[Installation method]
C	Flange mounting

Code	[Order of development]
2	

Code	[Brake]
Omitted	Not provided
B	Provided

Code	[Oil seal/ shaft]	Applicable motor	
		GYS	GYG
A	Without an oil seal, straight shaft with a key	⊙	△
B	Without an oil seal, straight shaft without a key	△	△
E	With an oil seal, straight shaft with a key	△	⊙
F	With an oil seal, straight shaft without a key	△	△

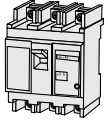
⊙ : Standard item  
△ : Made-to-order item

Code	[Input voltage]
2	AC 200 V series

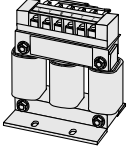
Code	[Encoder]
T	17-bit INC

# Guide to System Configuration

I. Circuit breaker, earth leakage circuit breaker, magnetic contactor



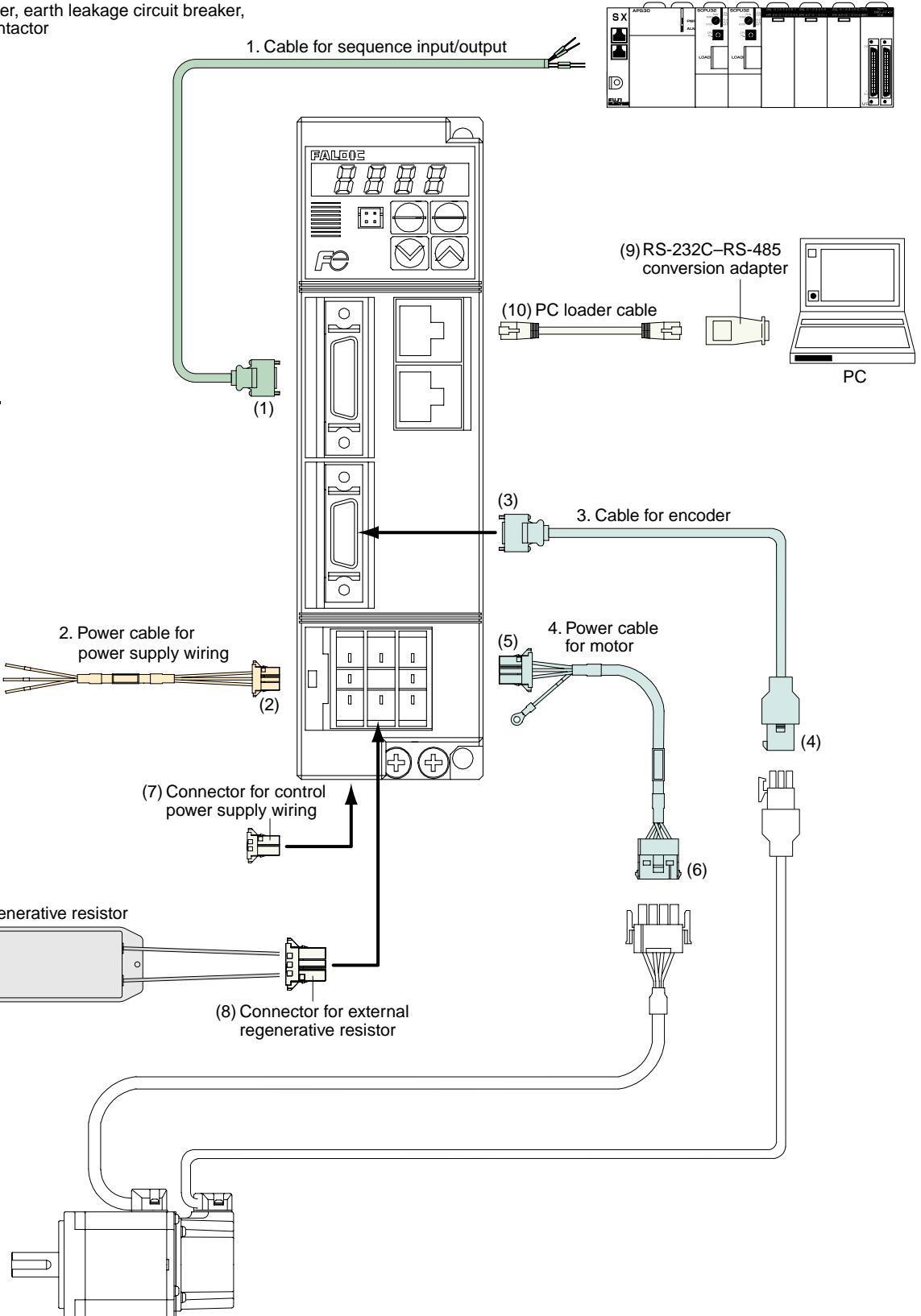
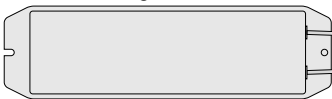
II. AC reactor



III. Power filter



IV. External regenerative resistor





## Guide to System Configuration

### Connector-provided cable correspondence table

Motor series	Rated speed	Brake	Rated output	Between host and amplifier	Between power supply and amplifier	Between amplifier and motor			
				1. Cable for sequence input/output	2. Power cable for power supply wiring	3. Cable for encoder	4. Power cable for motor		
Low inertia	GYS motor	3000 r/min	Not provided	0.05 to 0.75 kW	WSC-D26P03 (3 m)	WSC-S03P03-B (3 m)	WSC-P06P05-D (5 m) WSC-P06P10-D (10 m) WSC-P06P20-D (20 m)	WSC-M04P05-B (5 m) WSC-M04P10-B (10 m) WSC-M04P20-B (20 m)	
			Provided					0.05 to 0.75 kW	WSC-M06P05-B (5 m) WSC-M06P10-B (10 m) WSC-M06P20-B (20 m)
Middle inertia	GYG motor	2000 r/min	Not provided	0.5 to 1 kW 1.5 to 2 kW	WSC-D26P03 (3 m)	WSC-S03P03-B (3 m)	WSC-P06P05-CD (5 m) WSC-P06P10-CD (10 m) WSC-P06P20-CD (20 m)	WSC-M04P05-WD (5 m) (*2) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)	
			Provided					0.5 to 1 kW	- (*1)
			1.5 to 2 kW					WSC-M04P05-WD (5 m) (*3) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)	
	GYG motor	1500 r/min	Not provided	0.5 to 0.85 kW 1.3 kW	WSC-D26P03 (3 m)	WSC-S03P03-B (3 m)	WSC-P06P10-CD (10 m) WSC-P06P20-CD (20 m)	WSC-M04P05-WD (5 m) (*2) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)	
			Provided					0.5 to 0.85 kW	- (*1)
			1.3 kW					WSC-M04P05-WD (5 m) (*3) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)	
			1.3 kW					- (*1)	

\*1: The customer is requested to make this cable with a specified connector.

(Specified connector: WSK-M04P-CA for brakes without a brake; WSK-M06P-CA for motors with a brake)

\*2: Use the cable together with the connector for motor power supply wiring WSK-M04P-CA.

\*3: Use the cable together with the connector for motor power supply wiring WSK-M06P-CA. (The customer is requested to make a cable for brakes.)

### Connector correspondence table

\*When the customer makes a cable, use any of the connectors shown in this table.

Motor series	Rated speed	Brake	Rated output	Between host and amplifier	Between power supply and amplifier	Between amplifier and motor					
				(1) Connector for sequence input/output wiring	(2) Connector for power supply wiring	Connector for encoder wiring		Connector for motor power supply wiring			
						(3) Amplifier side	(4) Motor side	(5) Amplifier side	(6) Motor side		
Low inertia	GYS motor	3000 r/min	Not provided	0.05 to 0.75 kW	WSC-D26P	WSC-S03P-B	WSC-D20P	WSC-P09P-D	WSC-M03P-B	WSK-M04P	
			Provided							0.05 to 0.75 kW	WSK-M06P
Middle inertia	GYG motor	2000 r/min	Not provided	0.5 to 1 kW 1.5 to 2 kW	WSC-D26P	WSC-S03P-B	WSC-D20P	WSC-P06P-C	WSC-M03P-B	*Terminal block wiring	
			Provided							0.5 to 1 kW	WSK-M04P-CA
			1.5 to 2 kW							*Terminal block wiring	WSK-M06P-CA
	GYG motor	1500 r/min	Not provided	0.5 to 0.85 kW 1.3 kW	WSC-D26P	WSC-S03P-B	WSC-D20P	WSC-P06P-C	WSC-M03P-B	*Terminal block wiring	
			Provided							0.5 to 0.85 kW	WSK-M04P-CA
			1.3 kW							*Terminal block wiring	WSK-M06P-CA
			1.3 kW						*Terminal block wiring		

### Common options

Name	Type	Description	Remarks
(7) Connector for control power supply wiring	WSK-L02P-D	-	(*4)
(8) Connector for external regenerative resistor	WSK-R03P-B	-	-
For personal computer loader connection	(9) Conversion adapter	NWOH-CNV	RS-232C-RS-485 conversion
	(10) Cable	WSC-PCL	2 m

\*4: The 1.3 kW, 1.5 kW, and 2 kW amplifier do not require this connector because they are connected with a terminal block.

### Peripheral devices

Rated speed	Input power supply	Servo amplifier type	Applicable motor output [kW]	I			Surge absorber	II AC reactor	III Power filter	IV External regenerative resistor (*1)
				Circuit breaker	Earth leakage circuit breaker	Magnetic contactor				
3000 [r/min]	Single-phase 200 to 230 V	RYC500D3-VVT2	0.05	EA33AC/3	EG33C/5	SC-5-1(19A)	[For control relay] S1-B-0 Specification: 200 Ω(1/2W) +0.1 μF (Okaya Electric Industries)	ACR2-0.4A	FHF-TA/5/250	WSR-401
		RYC101D3-VVT2	0.1	EA33AC/5						
		RYC201D3-VVT2	0.2	EA33AC/10	EG33C/10					
		RYC401D3-VVT2	0.4	EA53C/15	EG53C/15					
		RYC751D3-VVT2	0.75							
3-phase 200 to 230 V	RYC751D3-VVT2	0.75							WSR-152	
2000 [r/min]	Single-phase 200 to 230 V	RYC501C3-VVT2	0.5	EA53C/15	EG53C/15	SC-5-1(19A)	[For electromagnetic contactor] S2-A-0 Specification: 500 Ω(1/2W) +0.2 μF (Okaya Electric Industries)	ACR2-1.5A	FHF-TA/20/250	WSR-152
		RYC751C3-VVT2	0.75	EA53C/15						
	3-phase 200 to 230 V	RYC501C3-VVT2	0.5	EA33AC/10	EG33C/10					
		RYC751C3-VVT2	0.75	EA53C/15	EG53C/15					
		RYC102C3-VVT2	1.0							
		RYC152C3-VVT2	1.5	EA53C/30	EG53C/30					
		RYC202C3-VVT2	2.0							
1500 [r/min]	Single-phase 200 to 230 V	RYC501B3-VVT2	0.5	EA53C/15	EG53C/15	SC-5-1(19A)	[For electromagnetic contactor] S2-A-0 Specification: 500 Ω(1/2W) +0.2 μF (Okaya Electric Industries)	ACR2-1.5A	FHF-TA/20/250	WSR-152
		RYC851B3-VVT2	0.85	EA33AC/10						
	3-phase 200 to 230 V	RYC501B3-VVT2	0.5	EA53C/15	EG53C/15					
		RYC132B3-VVT2	1.3							

\*1: To connect the external regenerative resistor WSR-401 or WSR-152 to the amplifier, a connector for external regenerative resistors [type: WSK-R03P-B] is required.

## Specifications [ Servomotor ]

### Low inertia series (GYS motor) 3000 r/min

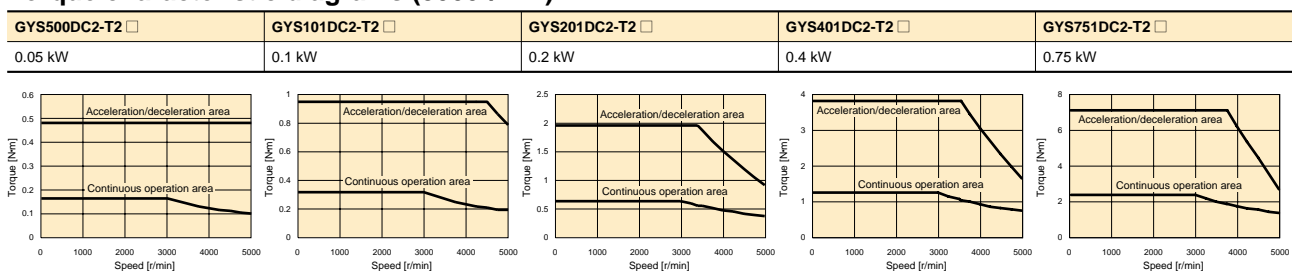
#### Standard specifications

Motor type	GYS500DC2 -T2 □	GYS101DC2 -T2 □	GYS201DC2 -T2 □	GYS401DC2 -T2 □	GYS751DC2 -T2 □
Rated output [kW]	0.05	0.1	0.2	0.4	0.75
Rated torque [N·m]	0.159	0.318	0.637	1.27	2.39
Max. torque [N·m]	0.478	0.955	1.91	3.82	7.17
Rated speed [r/min]	3000				
Max. speed [r/min]	5000				
Moment of inertia [kg·m <sup>2</sup> ]	0.0192×10 <sup>-4</sup>	0.0371×10 <sup>-4</sup>	0.135×10 <sup>-4</sup>	0.246×10 <sup>-4</sup>	0.853×10 <sup>-4</sup>
Rated current [A]	0.85	0.85	1.5	2.7	4.8
Max. current [A]	2.55	2.55	4.5	8.1	14.4
Winding insulation class	Class B				
Operation duty type	Continuous				
Degree of enclosure protection	Totally enclosed, self-cooled (IP67, excluding the shaft sealing and connectors)				
Terminals (motor)	With 0.3 m flexible leads and connectors				
Terminals (encoder)	With 0.3 m flexible leads and connectors				
Overheat protection	Not provided (The servo amplifier detects temperature.)				
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)				
Shaft extension	Straight shaft with a key				
Paint color	N1.5				
Encoder	17-bit encoder				
Vibration level	V5 or below				
Installation place, altitude	For indoor use, 1000 m or below				
Ambient temperature, humidity	-10 to +40 °C, 90 % RH or below (without condensation)				
Vibration resistance [m/s <sup>2</sup> ]	49				
Mass [kg]	0.45	0.55	1.2	1.8	3.4

#### Motor with a brake

Motor type	GYS500DC2 -T2 □-B	GYS101DC2 -T2 □-B	GYS201DC2 -T2 □-B	GYS401DC2 -T2 □-B	GYS751DC2 -T2 □-B
Rated output [kW]	0.05	0.1	0.2	0.4	0.75
Rated torque [N·m]	0.159	0.318	0.637	1.27	2.39
Static friction torque [N·m]	0.34		1.27		2.45
Moment of inertia [kg·m <sup>2</sup> ]	0.0223×10 <sup>-4</sup>	0.0402×10 <sup>-4</sup>	0.335×10 <sup>-4</sup>	0.446×10 <sup>-4</sup>	1.203×10 <sup>-4</sup>
Rated DC voltage [V]	24 V DC				
Attraction time [ms]	35		40		60
Release time [ms]	10		20		25
Brake input [W]	6.1		7.3		8.5
Mass [kg]	0.6	0.7	1.7	2.3	4.2

#### Torque characteristic diagrams (3000r/min)



Specifications [ Servomotor ]

Middle inertia series (GYG motor) 2000 r/min, 1500 r/min

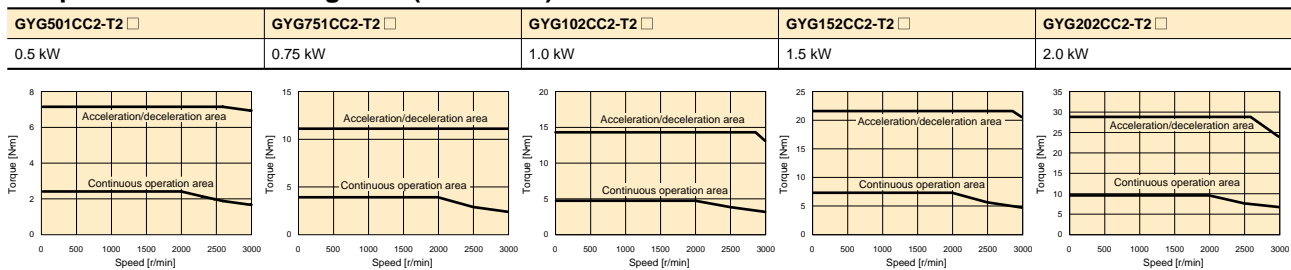
Standard specifications

Motor type	GYG501CC2 -T2 □	GYG751CC2 -T2 □	GYG102CC2 -T2 □	GYG152CC2 -T2 □	GYG202CC2 -T2 □	GYG501BC2 -T2 □	GYG851BC2 -T2 □	GYG132BC2 -T2 □	
Rated output [kW]	0.5	0.75	1.0	1.5	2.0	0.5	0.85	1.3	
Rated torque [N·m]	2.39	3.58	4.77	7.16	9.55	3.18	5.41	8.28	
Max. torque [N·m]	7.2	10.7	14.3	21.5	28.6	9.50	16.2	24.8	
Rated speed [r/min]	2000					1500			
Max. speed [r/min]	3000								
Moment of inertia [kg·m <sup>2</sup> ]	7.96×10 <sup>-4</sup>	11.55×10 <sup>-4</sup>	15.14×10 <sup>-4</sup>	22.33×10 <sup>-4</sup>	29.51×10 <sup>-4</sup>	11.55×10 <sup>-4</sup>	15.15×10 <sup>-4</sup>	22.33×10 <sup>-4</sup>	
Rated current [A]	3.5	5.2	6.4	10.0	12.3	4.7	7.3	11.5	
Max. current [A]	10.5	15.6	19.2	30.0	36.9	14.1	21.9	34.5	
Winding insulation class	Class F								
Operation duty type	Continuous								
Degree of enclosure protection	Totally enclosed, self-cooled (IP67, excluding the shaft sealing)								
Terminals (motor)	Cannon connectors								
Terminals (encoder)	Cannon connectors								
Overheat protection	Not provided (The servo amplifier detects temperature.)								
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)								
Shaft extension	Straight shaft with a key								
Paint color	N1.5								
Encoder	17-bit encoder								
Vibration level	V10 or below								
Installation place, altitude	For indoor use, 1000 m or below								
Ambient temperature, humidity	-10 to +40 °C, 90 % RH or below (without condensation)								
Vibration resistance [m/s <sup>2</sup> ]	24.5								
Mass [kg]	5.3	6.4	7.5	9.8	12.0	6.4	7.5	9.8	

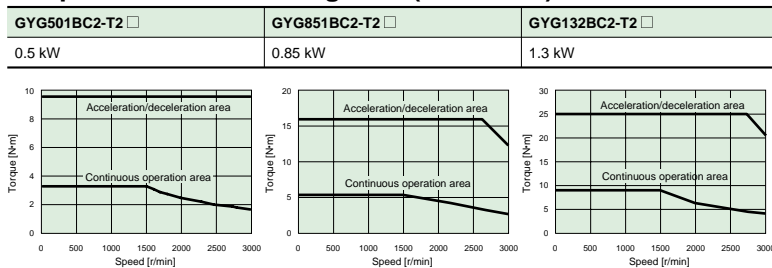
Motor with a brake

Motor type	GYG501CC2 -T2 □-B	GYG751CC2 -T2 □-B	GYG102CC2 -T2 □-B	GYG152CC2 -T2 □-B	GYG202CC2 -T2 □-B	GYG501BC2 -T2 □-B	GYG851BC2 -T2 □-B	GYG132BC2 -T2 □-B	
Rated output [kW]	0.5	0.75	1.0	1.5	2.0	0.5	0.85	1.3	
Rated torque [N·m]	2.39	3.58	4.77	7.16	9.55	3.18	5.41	8.28	
Static friction torque [N·m]	17								
Moment of inertia [kg·m <sup>2</sup> ]	10×10 <sup>-4</sup>	13.6×10 <sup>-4</sup>	17.2×10 <sup>-4</sup>	24.4×10 <sup>-4</sup>	31.6×10 <sup>-4</sup>	13.6×10 <sup>-4</sup>	17.3×10 <sup>-4</sup>	24.5×10 <sup>-4</sup>	
Rated DC voltage [V]	24 V DC ± 10 %								
Attraction time [ms]	120								
Release time [ms]	30								
Brake input [W]	14 (at 20 °C)								
Mass [kg]	8.3	9.4	10.5	12.8	15.0	9.4	10.5	12.8	

Torque characteristic diagrams (2000r/min)



Torque characteristic diagrams (1500r/min)



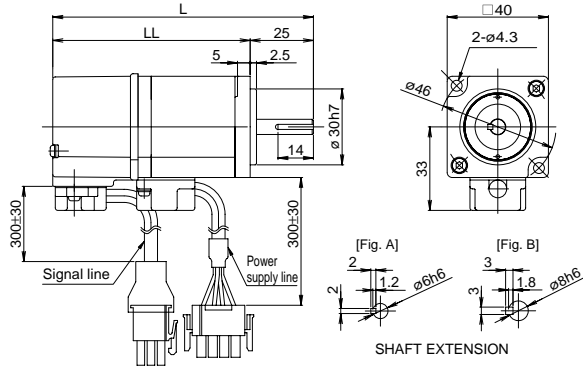
# External Dimensions [ Servomotor ]

## Low inertia series (GYS motor) 3000 r/min

### Standard type

Rated speed	Rated output	Type	Shaft end shape	Overall length		Mass [kg]
				L	LL	
3000 [r/min]	0.05 kW	GYS500DC2-T2A	Fig. A	103	78	0.45
	0.1 kW	GYS101DC2-T2A	Fig. B	121	96	0.55

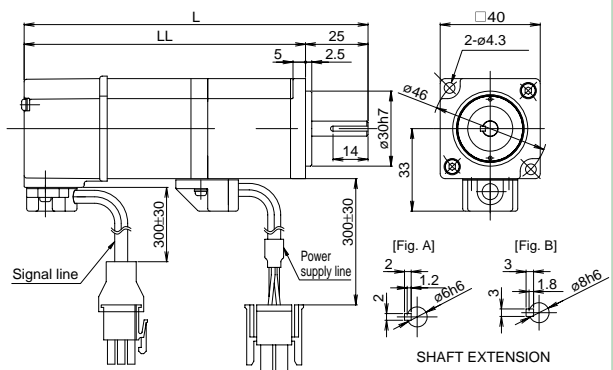
(Unit: mm)



### Motor with a brake

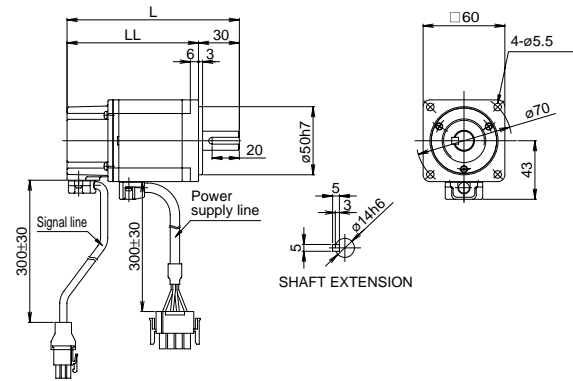
Rated speed	Rated output	Type	Shaft end shape	Overall length		Mass [kg]
				L	LL	
3000 [r/min]	0.05 kW	GYS500DC2-T2A-B	Fig. A	137.5	112.5	0.62
	0.1 kW	GYS101DC2-T2A-B	Fig. B	155.5	130.5	0.72

(Unit: mm)



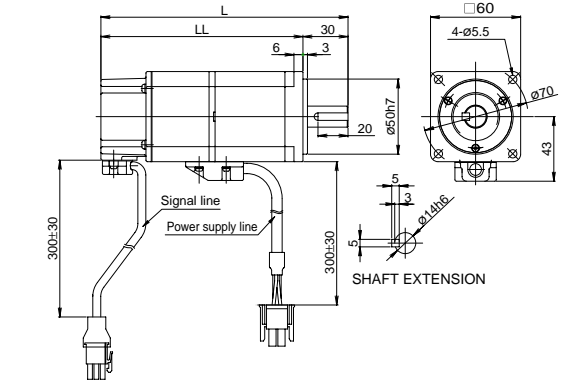
Rated speed	Rated output	Type	Overall length		Mass [kg]
			L	LL	
3000 [r/min]	0.2 kW	GYS201DC2-T2A	126.5	96.5	1.2
	0.4 kW	GYS401DC2-T2A	154.5	124.5	1.8

(Unit: mm)



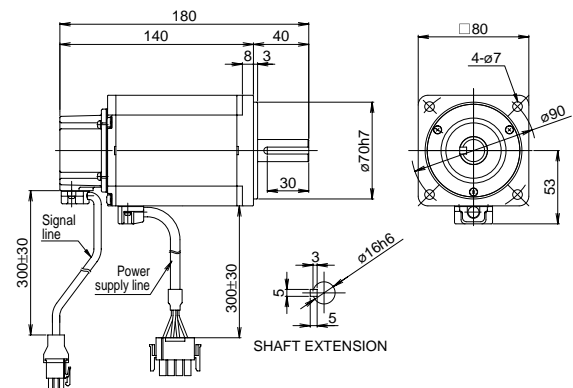
Rated speed	Rated output	Type	Overall length		Mass [kg]
			L	LL	
3000 [r/min]	0.2 kW	GYS201DC2-T2A-B	164.5	134.5	1.7
	0.4 kW	GYS401DC2-T2A-B	192.5	162.5	2.3

(Unit: mm)



Rated speed	Rated output	Type
3000 [r/min]	0.75 kW	GYS751DC2-T2A

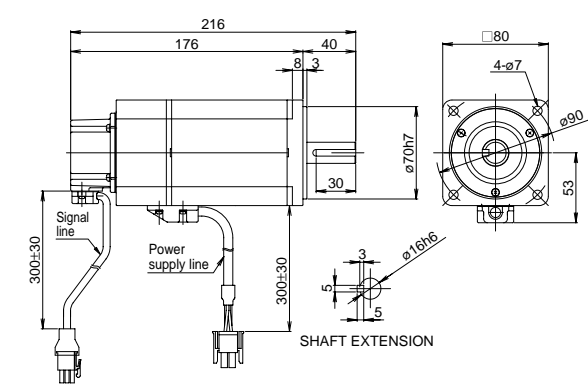
(Unit: mm)



Mass: 3.4 [kg]

Rated speed	Rated output	Type
3000 [r/min]	0.75 kW	GYS751DC2-T2A-B

(Unit: mm)



Mass: 4.2 [kg]

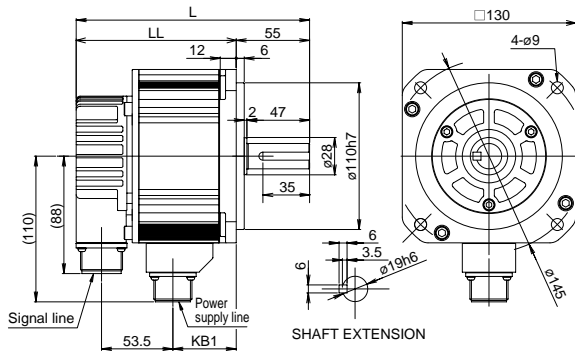
External Dimensions [ Servomotor ]

Middle inertia series (GYG motor) 2000 r/min, 1500 r/min

Standard type

Rated speed	Rated output	Type	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	
2000 [r/min]	0.5 kW	GYG501CC2-T2E	175	120	47.5	5.3
	0.75 kW	GYG751CC2-T2E	187.5	132.5	60	6.4

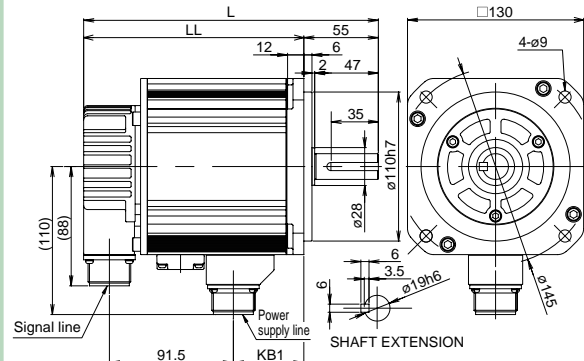
(Unit: mm)



Motor with a brake

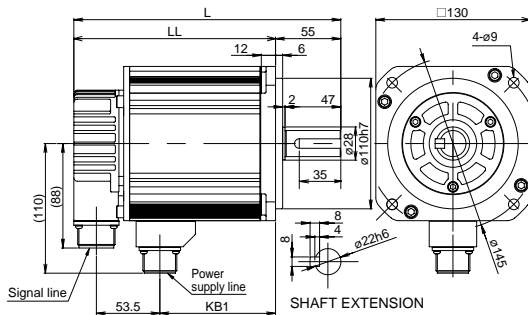
Rated speed	Rated output	Type	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	
2000 [r/min]	0.5 kW	GYG501CC2-T2E-B	217.5	162.5	52	7.5
	0.75 kW	GYG751CC2-T2E-B	230	175	64.5	8.6

(Unit: mm)



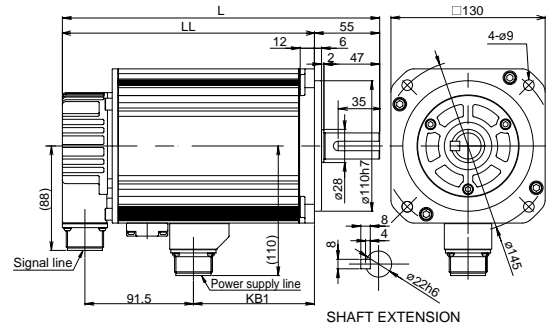
Rated speed	Rated output	Type	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	
2000 [r/min]	1 kW	GYG102CC2-T2E	200	145	72.5	7.5
	1.5 kW	GYG152CC2-T2E	225	170	97.5	9.8
	2 kW	GYG202CC2-T2E	250	195	122.5	12

(Unit: mm)



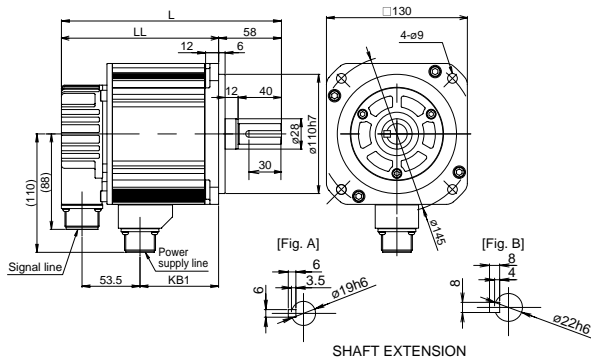
Rated speed	Rated output	Type	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	
2000 [r/min]	1 kW	GYG102CC2-T2E-B	242.5	187.5	77	9.7
	1.5 kW	GYG152CC2-T2E-B	267.5	212.5	102	12
	2 kW	GYG202CC2-T2E-B	292.5	237.5	127	14.2

(Unit: mm)



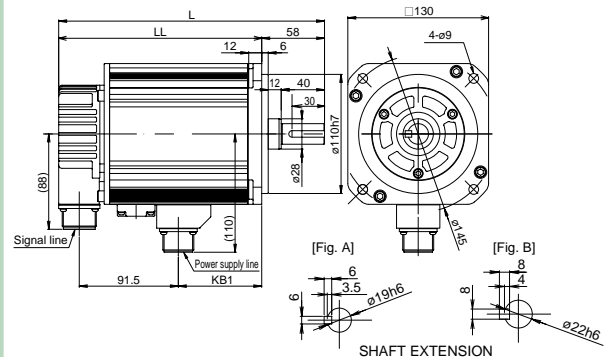
Rated speed	Rated output	Type	Shaft end shape	Overall length	Dimension (flange)	Terminal	Mass [kg]
				L	LL	KB1	
1500 [r/min]	0.5 kW	GYG501BC2-T2E	Fig. A	190.5	132.5	60	6.4
	0.85 kW	GYG851BC2-T2E	Fig. A	203	145	72.5	7.5
	1.3 kW	GYG132BC2-T2E	Fig. B	228	170	97.5	9.8

(Unit: mm)



Rated speed	Rated output	Type	Shaft end shape	Overall length	Dimension (flange)	Terminal	Mass [kg]
				L	LL	KB1	
1500 [r/min]	0.5 kW	GYG501BC2-T2E-B	Fig. A	233	175	64.5	8.6
	0.85 kW	GYG851BC2-T2E-B	Fig. A	245.5	187.5	77	9.7
	1.3 kW	GYG132BC2-T2E-B	Fig. B	270.5	212.5	102	12

(Unit: mm)



# Specifications [ Servo Amplifier ]

## Basic specifications

Applicable motor rated speed		3000 [r/min]					2000 [r/min]					1500 [r/min]		
Applicable motor output		0.05 kW	0.1 kW	0.2 kW	0.4 kW	0.75 kW	0.5 kW	0.75 kW	1 kW	1.5 kW	2 kW	0.5 kW	0.85 kW	1.3 kW
Type RYC□□□	D3-VVT2	500	101	201	401	751								
	C3-VVT2						501	751	102	152	202			
	B3-VVT2											501	851	132
Outer frame number		Frame 1				Frame 2	Frame 2			Frame 3		Frame 2		Frame 3
Mass		1.0 [kg]				1.5 [kg]		2.5 [kg]			1.5 [kg]		2.5 [kg]	
Power supply	Main power supply	Phase		Single-phase			Single-phase, 3-phase			3-phase		Single-phase, 3-phase		3-phase
		Voltage frequency		AC200 to 230 [V] -15 [%] to +10 [%] (-10 [%] to +10 [%] at Single-phase) 50/60 [Hz]										
Control system	Control power supply	Phase		Single-phase										
		Voltage frequency		AC200 to 230 [V] -15 [%] to +10 [%] 50/60 [Hz]										
Control system		IGBT PWM sinusoidal PWM drive												
Feedback		17-bit incremental encoder												
Functions, input/output signals	Sequence input (CONT1 to 5)		(1) Servo ON, (2) +over-travel, (3) -over-travel, (4) emergency stop, (5) P-action, (6) free run command, (7) anti-resonant frequency selection 1, (8) anti-resonant frequency selection 2, (9) control mode switching, (10) external regenerative resistor overheat, (11) alarm reset These functions can be assigned to sequence inputs CONT1 to CONT5 and used. (*1)											
	Sequence output (OUT1 to 4)		(1) Servo ready, (2) positioning complete, (3) servo alarm detection a-contact, (4) servo alarm detection b-contact, (5) dynamic braking control, (6) over-travel detection, (7) emergency stop detection, (8) deviation zero, (9) speed zero, (10) current limit detection, (11) brake timing These functions can be assigned to sequence outputs OUT1 to OUT4 and used.											
	Encoder signal dividing output	Dividing setting	Pulse output setting 16 to 32768 (pulses/rev)											
		Signal form	(1) Line driver output A-phase, B-phase, and Z-phase, (2) open collector output Z-phase											
	Monitor output		Analog voltage output for signal measurement (alternating, pulsating) × 2 (1) Speed command, (2) speed return, (3) torque command, (4) positional deviation, (5) positional deviation expansion, (6) pulse command frequency These functions can be assigned to monitor outputs MON1 and MON2 and used, and the output voltage scale and offset can be set by setting parameters.											
	Position control	Max. command pulse frequency	Pulse frequency (max.) command input 1 [MHz] (differential), 200 [kHz] (open collector), dividing output 500 [kHz] (differential)											
		Input pulse signal form	Compatible with two systems: (1) RS-422 line driver signals and (2) open collector signals											
		Input pulse type	Selectable from (1) command pulse/command sign, (2) forward operation/reverse operation pulse, and (3) two 90° phase-different signals											
		Command pulse correction	Position pulse = command pulse × $\frac{\text{command pulse correction } \alpha (1 \text{ to } 32767)}{\text{command pulse correction } \beta (1 \text{ to } 32767)}$ Four types of command pulse correction $\alpha$ can be set, and constant switching operation is available.											
	Position control input		(1) Command pulse correction $\alpha$ selection 1, (2) command pulse correction $\alpha$ selection 2, (3) deviation clear, (4) command pulse disabled These functions can be assigned to sequence inputs CONT1 to CONT5 and used. (*1)											
Speed control	Speed control range	1:5000												
	Acceleration/deceleration time setting	0 to 10 [s]/2000 [r/min], acceleration and deceleration times can be set separately, two acceleration times and deceleration times can be set, S-curve acceleration/deceleration is possible.												
	External speed command input	Speed control by analog voltage commands, ±10 V input, the voltage-speed scale and offset can be set by setting parameters.												
	Internal speed setting	Three speeds can be set by setting internal parameters.												
Speed control input		(1) Multi-speed selection 1, (2) multi-speed selection 2, (3) forward operation, (4) reverse operation, (5) acceleration/deceleration time selection These functions can be assigned to sequence inputs CONT1 to CONT5 and used. (*1)												
Torque control	External torque command input	Speed control by analog voltage commands, ±10 V input, the voltage-torque scale and offset can be set by setting parameters.												
	Torque control input	(1) Forward operation and (2) reverse operation can be assigned to sequence inputs CONT1 to CONT5 and used. (*1)												
Regenerative braking		Regenerative braking to DC intermediate circuit, the regenerative resistor can be externally installed.												
Additional functions		Zero clamp function, vibration suppressing control, notch filter, easy tuning, brake timing output, etc.												
Protection		Overcurrent (OC1, OC2), overspeed (OS), overvoltage (Hv), encoder error (Et), control power error (Ct), memory error (dE), regenerative transistor overheat (rH2), encoder communication error (EC), CONT duplication (Cnt), overload (OL), insufficient voltage (LV), regenerative resistor overheat (rH1), excessive deviation (OF), amplifier overheat (AH)												
Working conditions	Installation place	For indoor use at max. altitude of 1,000 m or below. The installation place shall be free from dust, corrosive gas, or direct sunlight. To meet European standards: Pollution degree = 2, overvoltage category = III												
	Temperature/humidity	-10 [°C] to 55 [°C]/10 to 90 [%RH] (without condensation)												
	Vibration/shock resistance	4.9 [m/s <sup>2</sup> ]/19.6 [m/s <sup>2</sup> ]												
Standards		Conforming to UL/cUL (UL508c) and CE Mark (low voltage directive EN50178)												

\*1: Functions you want to keep ON at all times can be used without wiring (up to four functions can be set by setting parameters as normally ON signals).

## Interface specifications

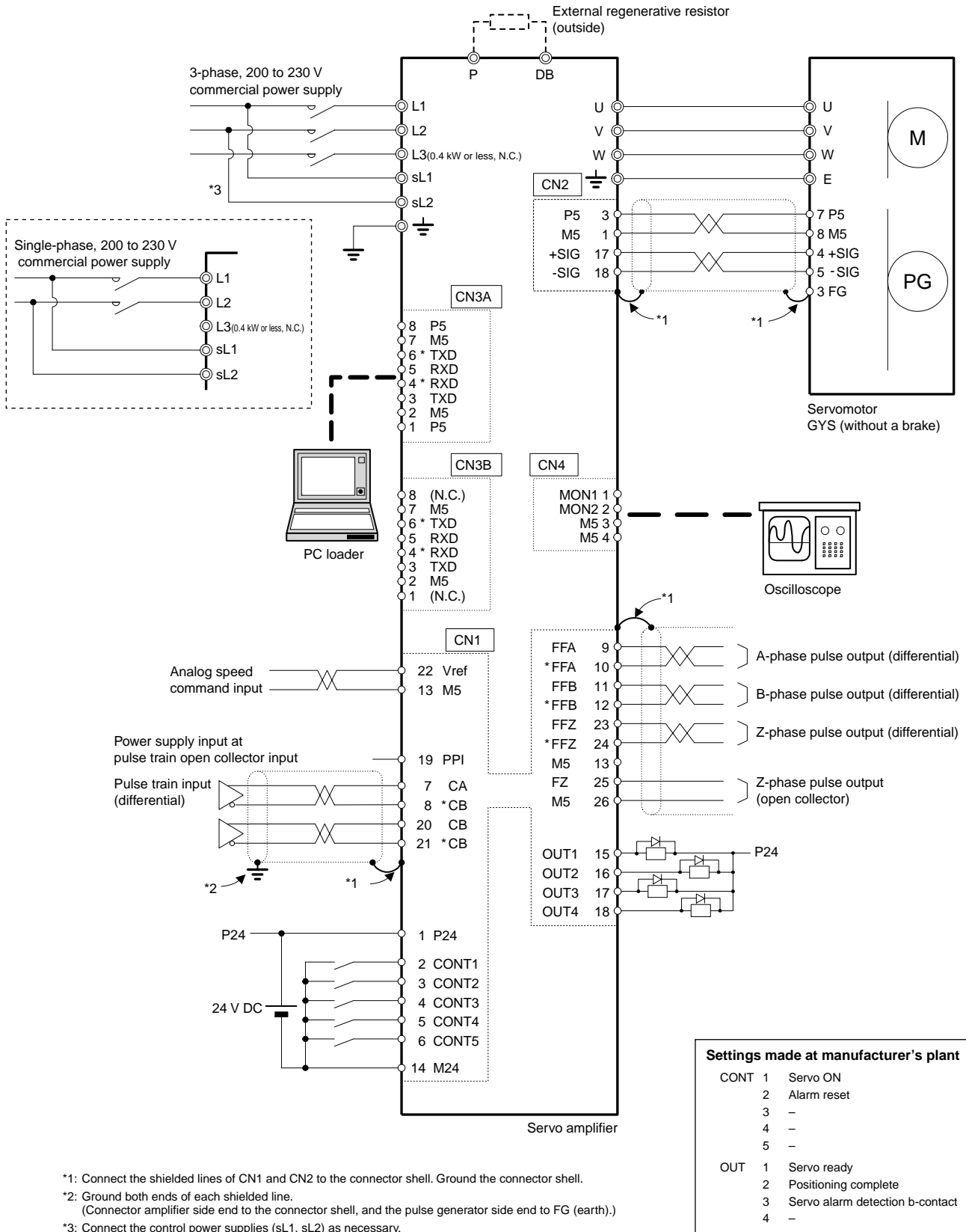
### I/O signal specifications

Terminal name	Code	Specification
Pulse train input	CA, *CA CB, *CB PPI	Pulse train form Selectable from (1) command pulse/command code, (2) forward operation pulse/reverse operation pulse, and (3) two 90° phase-different signals. Drive power supply input during open collector input (+24 V DC)
Frequency dividing output	FFA, *FFA FFB, *FFB FFZ, *FFZ FZ, M5	Differential output, two 90° phase-different signal output Set output pulses: 16 to 32768 [pulse/rev] Differential output 1 [pulse/rev] Open collector output 1 [pulse/rev]
Analog input	Vref	Speed control and torque control analog command input ±10 V (input impedance: 20 kΩ)
Power input for sequence signals	P24 M24	+24 V DC for sequence signals is input from outside. 300 mA power is required as an external power supply.
Sequence input signal	CONT1 to CONT5	Each terminal is ON when connected to M24, and OFF when disconnected. +24 V DC/10 mA (per point). The terminals can be assigned to each function by setting parameters.
Sequence output signal	OUT1 to OUT4	ON while connected to the M24 terminal. 30 V DC/50 mA (max.). The terminals can be assigned to each function by setting parameters.
Monitor output 1, monitor output 2	MON1, MON2	Analog voltage output for signal measurement (alternating, pulsating) Selectable from (1) speed command, (2) speed return, (3) torque command, (4) positional deviation, (5) positional deviation expansion, and (6) pulse command frequency.

### Communication specifications

Item	Specification
Interface	Two RS-485 ports
Synchronization system	Start-stop synchronization
Transmission system	Four-wire type duplex
Baud rate	9600, 19200, 38400 [bps]
Max. number of axes	31 axes

Connection Diagram (Reference)



\*1: Connect the shielded lines of CN1 and CN2 to the connector shell. Ground the connector shell.  
 \*2: Ground both ends of each shielded line.  
 (Connector amplifier side end to the connector shell, and the pulse generator side end to FG (earth).)  
 \*3: Connect the control power supplies (sL1, sL2) as necessary.



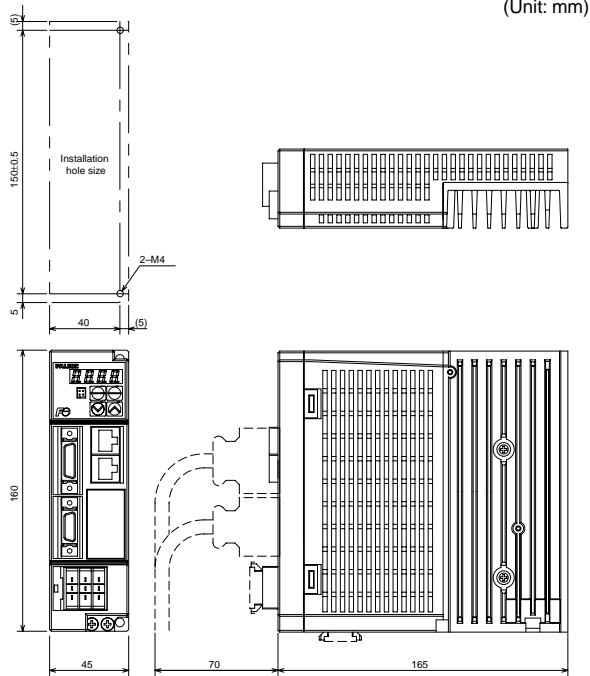
**CAUTION**

The diagram shown above is given as a reference for model selection. When actually using the selected servo system, make wiring connections according to the connection diagram and instructions described in the user's manual.

# External Dimensions [ Servo Amplifier]

## Frame 1

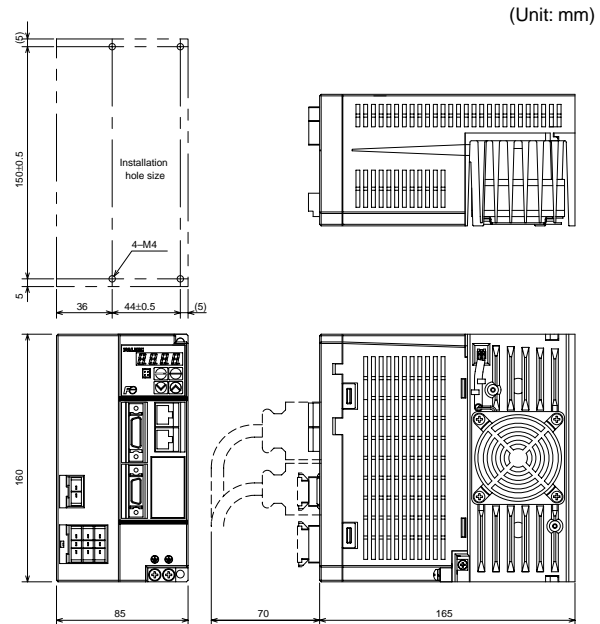
Rated speed	Applicable motor output	Type
3000 [r/min]	0.05 kW	RYC500D3-VVT2
	0.1 kW	RYC101D3-VVT2
	0.2 kW	RYC201D3-VVT2
	0.4 kW	RYC401D3-VVT2



Mass: 1.0 [kg]

## Frame 2

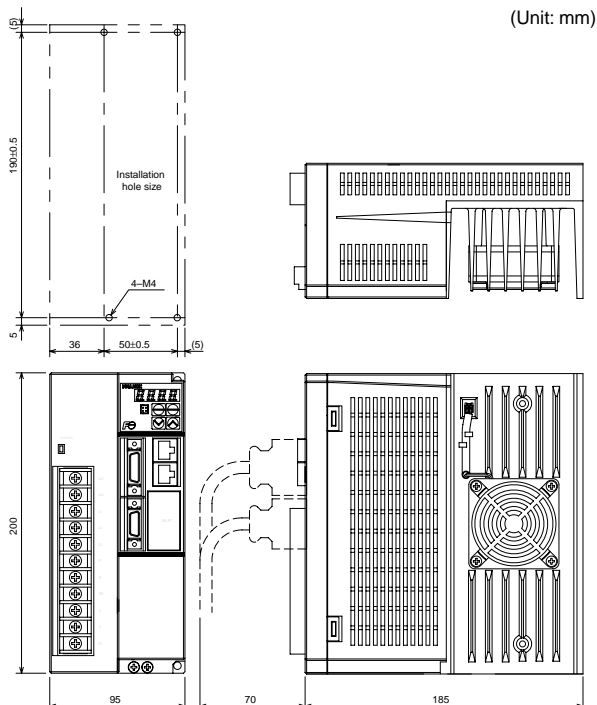
Rated speed	Applicable motor output	Type
3000 [r/min]	0.75 kW	RYC751D3-VVT2
	0.5 kW	RYC501C3-VVT2
2000 [r/min]	0.75 kW	RYC751C3-VVT2
	1 kW	RYC102C3-VVT2
1500 [r/min]	0.5 kW	RYC501B3-VVT2
	0.85 kW	RYC851B3-VVT2



Mass: 1.5 [kg]

## Frame 3

Rated speed	Applicable motor output	Type
2000 [r/min]	1.5 kW	RYC152C3-VVT2
	2 kW	RYC202C3-VVT2
1500 [r/min]	1.3 kW	RYC132B3-VVT2



Mass: 2.5 [kg]



## Model Code List

### Servomotor

Specification						Type
Rated speed	Encoder	Winding insulation class (*1)	Oil seal/shaft	Brake	Rated output	Type
3000 r/min	17-bit INC	IP67	Without an oil seal, with a key (*2)	Without a brake	0.05 kW	GYS500DC2-T2A
					0.1 kW	GYS101DC2-T2A
					0.2 kW	GYS201DC2-T2A
					0.4 kW	GYS401DC2-T2A
					0.75 kW	GYS751DC2-T2A
				With a brake	0.05 kW	GYS500DC2-T2A-B
					0.1 kW	GYS101DC2-T2A-B
					0.2 kW	GYS201DC2-T2A-B
					0.4 kW	GYS401DC2-T2A-B
					0.75 kW	GYS751DC2-T2A-B
2000 r/min	17-bit INC	IP67	With an oil seal and a key (*3)	Without a brake	0.5 kW	GYG501CC2-T2E
					0.75 kW	GYG751CC2-T2E
					1 kW	GYG102CC2-T2E
					1.5 kW	GYG152CC2-T2E
					2 kW	GYG202CC2-T2E
				With a brake	0.5 kW	GYG501CC2-T2E-B
					0.75 kW	GYG751CC2-T2E-B
					1 kW	GYG102CC2-T2E-B
					1.5 kW	GYG152CC2-T2E-B
					2 kW	GYG202CC2-T2E-B
1500 r/min	17-bit INC	IP67	With an oil seal and a key (*3)	Without a brake	0.5 kW	GYG501BC2-T2E
					0.85 kW	GYG851BC2-T2E
					1.3 kW	GYG132BC2-T2E
				With a brake	0.5 kW	GYG501BC2-T2E-B
					0.85 kW	GYG851BC2-T2E-B
					1.3 kW	GYG132BC2-T2E-B

\*1: Excluding the shaft sealing and connectors of the GYS motor, and the shaft sealing of the GYG motor.

\*2: Servomotors (1) without an oil seal and a key, (2) with an oil seal and without a key, and (3) with an oil seal and a key are made-to-order.

\*3: Servomotors (1) without an oil seal and a key, (2) with an oil seal and without a key, and (3) without an oil seal and with a key are made-to-order.

### Servo amplifier

Specification			Type
Input power supply	Applicable motor	Applicable motor output	Type
Single-phase 200 to 230 V	Low inertia series (GYS motor) 3000 r/min	For 0.05 kW	RYC500D3-VVT2
		For 0.1 kW	RYC101D3-VVT2
		For 0.2 kW	RYC201D3-VVT2
		For 0.4 kW	RYC401D3-VVT2
		For 0.75 kW	RYC751D3-VVT2
Single-phase or 3-phase 200 to 230 V	Middle inertia series (GYG motor) 2000 r/min	For 0.5 kW	RYC501C3-VVT2
		For 0.75 kW	RYC751C3-VVT2
		For 1 kW	RYC102C3-VVT2
		For 1.5 kW	RYC152C3-VVT2
3-phase 200 to 230 V	Middle inertia series (GYG motor) 2000 r/min	For 2 kW	RYC202C3-VVT2
Single-phase or 3-phase 200 to 230 V	Middle inertia series (GYG motor) 1500 r/min	For 0.5 kW	RYC501B3-VVT2
		For 0.85 kW	RYC851B3-VVT2
3-phase 200 to 230 V		For 1.3 kW	RYC132B3-VVT2

## Model Code List

### Options

#### Cables with connectors

Name	Specification		Applicable model (*1)						Type
			(A)	(B)	(C)	(D)	(E)	(F)	
Cable for sequence input/output (for connection between host controller and amplifier)	3 m	Single-connector	●	●	●	●	●	●	WSC-D26P03
Power cable for power supply wiring	3 m	Single-connector	●	●	●	●			WSC-S03P03-B
Cable for encoder (for connection between amplifier and motor)	5 m	Double-connector	●	●					WSC-P06P05-D
	10 m								WSC-P06P10-D
	20 m								WSC-P06P20-D
	5 m	Double-connector			●	●	●	●	WSC-P06P05-CD
	10 m								WSC-P06P10-CD
	20 m								WSC-P06P20-CD
Power cable for motor (for connection between amplifier and motor)	5 m	Double-connector	●						WSC-M04P05-B
	10 m								WSC-M04P10-B
	20 m								WSC-M04P20-B
	5 m	Double-connector		●					WSC-M06P05-B
	10 m								WSC-M06P10-B
	20 m								WSC-M06P20-B
	5 m	Single-connector			●	●			WSC-M04P05-WD
	10 m				(*)2	(*)3			WSC-M04P10-WD
	20 m								WSC-M04P20-WD

\*1: For applicable models, see Table 1: Applicable models below.

\*2: Use the cable together with the connector for motor power supply wiring WSK-M04P-CA.

\*3: Use the cable together with the connector for motor power supply wiring WSK-M06P-CA. (The customer is requested to make a cable for brakes.)

#### Connectors \*When the customer makes a cable, use any of the connectors shown in this table.

Name	Specification		Applicable model (*1)						Type
			(A)	(B)	(C)	(D)	(E)	(F)	
Connector for sequence input/output wiring	Half pitch connector, soldered type, 26-pin × 1 set		●	●	●	●	●	●	WSK-D26P
Connector for power supply wiring	Dynamic connector, X key, 3-pin × 1 set		●	●	●	●			WSK-S03P-B
Connector for encoder wiring	Amplifier side	Half pitch connector, soldered type, 20-pin × 1 set	●	●	●	●	●	●	WSK-D20P
	Motor side	MATE-N-LOCK connector, 9-pin × 1 set	●	●					WSK-P09P-D
Connector for motor power supply wiring	Amplifier side	Cannon plug (angle), 6-pin × 1 set			●	●	●	●	WSK-P06P-C
		Dynamic connector, Y key, 3-pin × 1 set	●	●	●	●			WSK-M03P-B
	Motor side	MATE-N-LOCK connector, 4-pin × 1 set	●						WSK-M04P
		MATE-N-LOCK connector, 6-pin × 1 set		●					WSK-M06P
		Cannon plug (angle), 4-pin × 1 set			●		●		WSK-M04P-CA
		Cannon plug (angle), 6-pin × 1 set				●	●	●	WSK-M06P-CA

\*1: For applicable models, see Table 1: Applicable models below.

#### Common options

Name	Specification	Type
Connector for control power supply wiring	Dynamic connector, X key, 2-pin × 1 set	WSK-L02P-D
For personal computer loader connection	Conversion adapter	NWOH-CNV
	Cable	Both-end RJ45 connector, straight connection, 2 m are required.
External regenerative resistor	0.4 kW or less	Connector for external regenerative resistor: Use it with WSK-R03P-B.
	0.5 kW to 1 kW	WSR-401
	1.3 kW to 2 kW	WSR-152
Connector for external regenerative resistor	Common to applicable models A to D (*1), dynamic connector, 3-pin, X key (with insertion error preventive key) × 1 set	DB11-2
		WSK-R03P-B

\*1: For applicable models, see Table 1: Applicable models below.

[Table 1: Applicable models]

Motor specification			Motor type	Applicable amplifier type	Applicable model group
Rated speed	Brake	Rated output			
3000 r/min	Without a brake	0.05 kW	GYS500DC2-T2A	RYC500D3-VVT2	(A)
		0.1 kW	GYS101DC2-T2A	RYC101D3-VVT2	
		0.2 kW	GYS201DC2-T2A	RYC201D3-VVT2	
		0.4 kW	GYS401DC2-T2A	RYC401D3-VVT2	
		0.75 kW	GYS751DC2-T2A	RYC751D3-VVT2	
	With a brake	0.05 kW	GYS500DC2-T2A-B	RYC500D3-VVT2	(B)
		0.1 kW	GYS101DC2-T2A-B	RYC101D3-VVT2	
		0.2 kW	GYS201DC2-T2A-B	RYC201D3-VVT2	
		0.4 kW	GYS401DC2-T2A-B	RYC401D3-VVT2	
		0.75 kW	GYS751DC2-T2A-B	RYC751D3-VVT2	
2000 r/min	Without a brake	0.5 kW	GYG501CC2-T2E	RYC501C3-VVT2	(C)
		0.75 kW	GYG751CC2-T2E	RYC751C3-VVT2	
		1 kW	GYG102CC2-T2E	RYC102C3-VVT2	
		1.5 kW	GYG152CC2-T2E	RYC152C3-VVT2	
		2 kW	GYG202CC2-T2E	RYC202C3-VVT2	

Motor specification			Motor type	Applicable amplifier type	Applicable model group
Rated speed	Brake	Rated output			
2000 r/min	With a brake	0.5 kW	GYG501BC2-T2E-B	RYC501B3-VVT2	(D)
		0.75 kW	GYG751CC2-T2E-B	RYC751C3-VVT2	
		1 kW	GYG102CC2-T2E-B	RYC102C3-VVT2	
		1.5 kW	GYG152CC2-T2E-B	RYC152C3-VVT2	
		2 kW	GYG202CC2-T2E-B	RYC202C3-VVT2	
		1500 r/min	Without a brake	0.5 kW	
0.85 kW	GYG851BC2-T2E	RYC851B3-VVT2			
1.3 kW	GYG132BC2-T2E	RYC132B3-VVT2			
1.5 kW	GYG152CC2-T2E-B	RYC152C3-VVT2			
2 kW	GYG202CC2-T2E-B	RYC202C3-VVT2			
2000 r/min	With a brake	0.5 kW		GYG501BC2-T2E-B	RYC501B3-VVT2
		0.85 kW	GYG851BC2-T2E-B	RYC851B3-VVT2	
		1.3 kW	GYG132BC2-T2E-B	RYC132B3-VVT2	

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3. If you use our product with equipment that is expected to cause serious injury or damage to your property in case of failure, be sure to take appropriate safety measures for the equipment.

Inverter Value Engineering Center/Suzuka Factory has acquired the certification of environment management ISO14001 and quality management system ISO9001.



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