

FUJI SERVO SYSTEM

FALDIC- β Series



FALDIC- β

SIMPLE & SMART

FALDIC-β
CATALOG
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The functions and features you're looking for, polished up.

FALDIC-β

SIMPLE & SMART

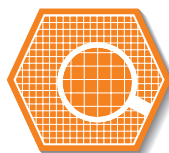


The FALDIC-β Series, designed for high performance and high precision, achieves vastly suppressed mechanical vibration through the use of Fuji's original vibration suppressing control function and notch filter, and realizes positioning settling times of less than 1 ms, etc. All the functions are housed in a compact body, and installation can be done in different ways to enable flexibility in different applications. Through the polished presentation of the functions and performance you are looking for, multiple needs can be met at a high level. This product is ideal particularly for machines in which high tact and high speed positioning are required.

FALDIC-β CONCEPT

- Suppresses mechanical vibrations to the maximum extent.
- Designed for high performance and high precision.
- Innovative compact size.
- Simple operation and short setup time.
- The standard configuration conforms to international standards. (UL/cUL, CE Marking)

TARGET



Semiconductor
manufacturing,
inspection
equipment



Electronic parts
fabrication
equipment



Unloading
robots




Wire harness
fabricator



**Ideal for machines for which high tact
and high speed positioning are required.**

Line of Products of FALDIC-βseries

Servo Amplifier

Model	Type	Host interface	Power supply	Capacity	Applicable motor series
FALDIC-β 	V type with pulse train control	DI/DO	Single-phase 100 to 115V	50 to 200W	GYS
			3-phase 200 to 230V	50 to 750W	GYS GYC

Servomotor

Model	Type	Rated speed (max. speed)	Power supply	Capacity	Applicable motor series
GYS motor 	Slim type	3000r/min (5000r/min)	Single-phase 100V class	50 to 200W	16-bit INC
		3000r/min (5000r/min)	3-phase 200V class	50 to 750W	16-bit INC
GYC motor 	Cubic type	3000r/min (5000r/min)	3-phase 200V class	100 to 750W	16-bit INC

Explanation of Model Codes

● Servo amplifier

RYB 201 S 3 - V B C 6

Code	Rated output
500	50×10 ⁰ = 50W
201	20×10 ¹ =200W

Code	Series
S	Standard

Order of development

Code	Input voltage
Blank	3-phase 200V
6	Single-phase 100V

Code	Encoder, others
C	16-bit INC, standard

Code	Upper interface
B	DI/DO (for pulse train)

Code	Major functions
V	Pulse train control

● Servomotor

GYS 201 D C 1 - C 6 A - B

Code	Basic type
GYS	Slim type
GYC	Cubic type

Code	Rated output
500	50×10 ⁰ = 50W
201	20×10 ¹ =200W

Code	Rated speed
D	3000r/min

Code	Installation method
C	By securing flange

Order of development

Code	Brake
Blank	Not provided
B	Provided

Code	Oil seal shaft	Applicable motor		
		Single-phase 100V	3-phase 200V	50 to 375W
A	Without an oil seal, straight shaft with a key	○	○	◎
B	Without an oil seal, straight shaft without a key	◎	◎	○

◎: Standard item ○: Optional item

Code	Voltage
Blank	200V
6	100V
8	Common to 100V and 200V

Code	Encoder
C	16-bit INC

Features 1.

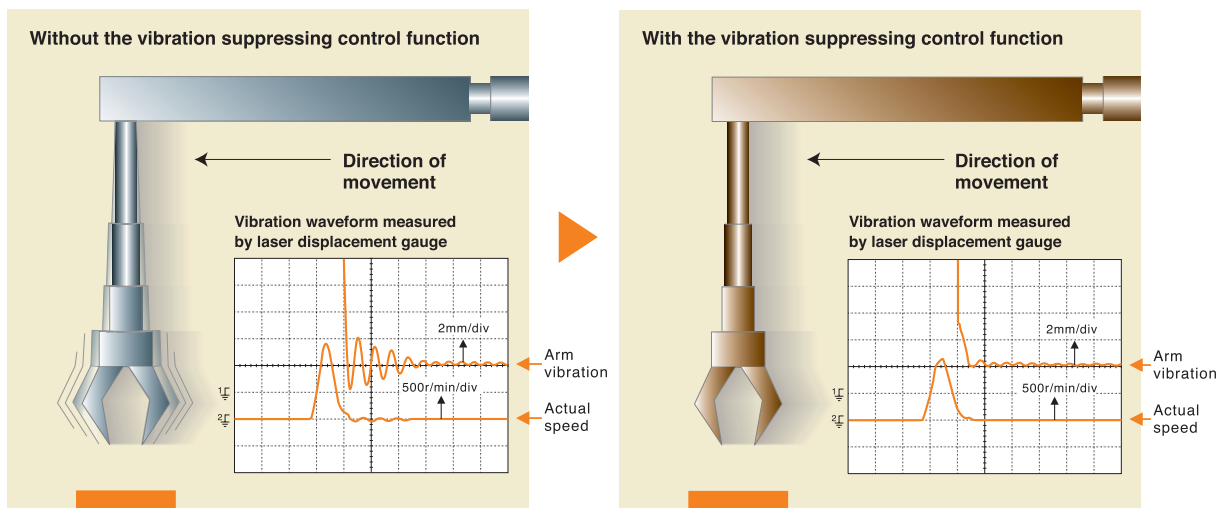


Suppresses mechanical vibrations to the maximum extent.

- Equipped with a “Vibration Suppressing Control Function” which is an effective countermeasure for suppressing vibration of the tips of robot arms, etc.

Fuji’s original vibration control function (Patent pending)

In high tact operation of mechanisms with low rigidity, such as the tips of robot arms, suppression of arm tip vibration is a major factor in shortening tact time. In the FALDIC-β series, Fuji’s original “Vibration Suppressing Control Function” is standard equipment. It reduces vibration in machines with low rigidity and realizes high machine tact.



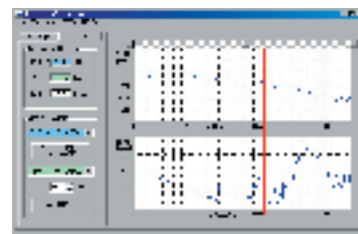
- Equipped with a notch filter and servo analysis function.

Notch Filter

This function is for the purpose of reducing machine resonance. By setting the data on the resonance point, which differs in each machine, as a parameter in the servo amplifier, the machine resonance occurring in that point can be reduced.

Servo Analysis Function (Option)

In order to utilize the “Vibration Suppressing Control Function” and “Notch Filter,” etc. effectively, it is necessary to analyze the “resonance frequencies” that are inherent in each machine. If the “Servo Analysis Function” offered in the optional personal computer loader is used, it can analyze the data for the machine system simply, eliminating the needs for complicated calculations and adjustments which are dependent on intuition.



Features 2.

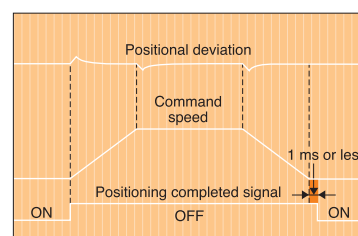


Designed for high performance and high precision.

- Command following servo (positional deviation \approx zero).

Positioning settling time is 1 ms or less.

Through the newly developed feed forward control which compensates for servo delay, operation even during acceleration and deceleration can be done with positional deviation almost zero. A positioning completed signal can be output virtually simultaneously with the end of the command pulse (within 1 ms).



- 16-bit High Resolution Encoder

A 65536 pulse/revolution serial encoder (exclusive INC) is standard equipment.

It can also be used for machines where high performance and highly accurate positioning is required.

Features 3.



Servo amplifiers which are the smallest in the industry, and can be installed side by side without clearance.

■ Innovative compact body

200V type, 200W: 35 (W) x 130 (H) x 130 (D)

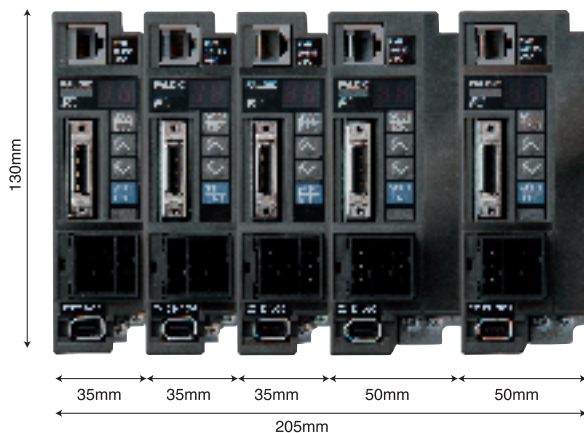
■ Side by side installation supports miniaturization of the control panel.

These units can be installed side by side horizontally, and through standardization of the height and depth dimensions, even if multiple units are used, they can be housed in an extremely compact cabinet, enabling miniaturization of control panels.

Capacity (W)	W (mm)	H (mm)	D (mm)
50	35	130	130
100	35	130	130
200	35	130	130
400	50	130	130
750	70	130	130

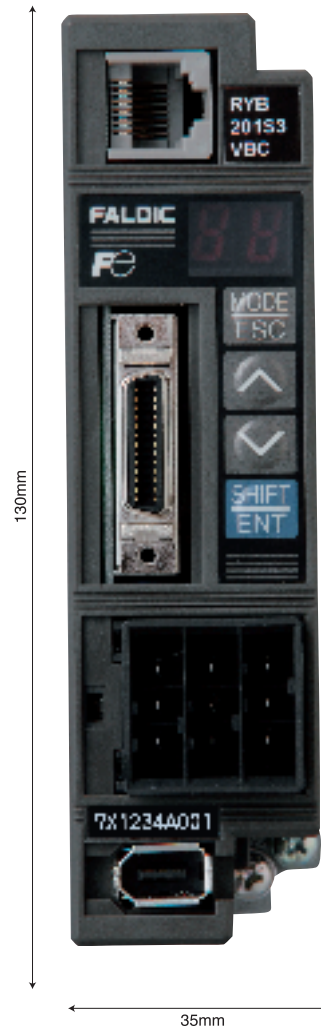
■ Panel space is reduced by side-by-side installation.

Example: 200W x 3 axes + 400 W x 2 axes



* The operating environment differs if the units are mounted side by side.

200V type, 200W actual size



Features 4.



Simple operation and short setup time

■ Uses a new type auto tuning function. ■ Setup parameters are designed to enhance operability.

The previous auto tuning function has been further refined so that adjustments of even "heavy perpetual loads," which are considered to be difficult in ordinary tuning, can be done easily.

By setting only 7 different parameters in the basic settings, operation with the industry's top level performance can be accomplished. In addition, by using the "personal computer loader" (option) for setting each type of system, setup can be accomplished in a short time.

Features 5.



The standard configuration conforms to international standards. (UL/cUL, CE Marking)

The standard specifications of the FALDIC-β Series support the "UL/cUL" and "CE Marking," so it can be used not only within Japan but anywhere overseas. This makes it a global servo with leading-edge performance, dimensions and operability that can be utilized anywhere.



Setup

Keypad Panel



The servo amplifier is provided with a keypad panel. The keypad panel allows you to display amplifier status and to make various settings.

Two-digit 7-segment display
- Indicates operation conditions, motor speed, and parameters.

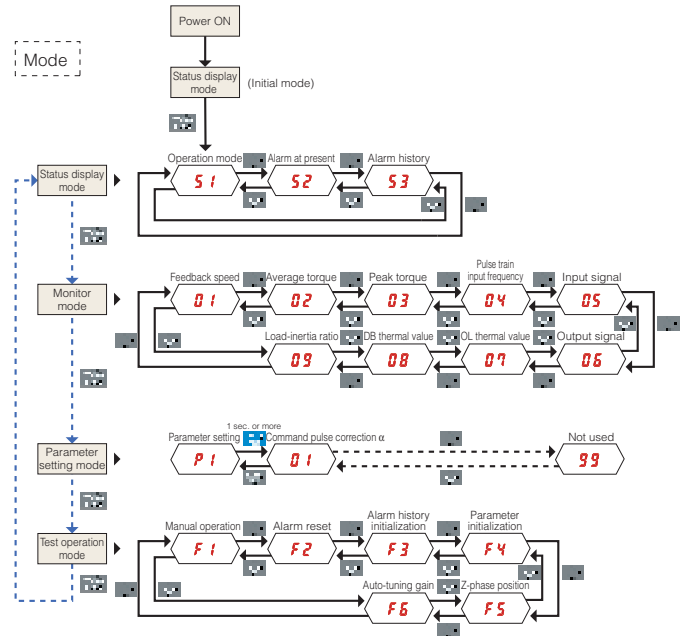
Mode switch
- Changes the mode (MODE).
- Cancels the mode (ESC).

Sub-mode selection (UP).
- Increases the value (+1).

Sub-mode selection (DOWN).
- Decreases the value (-1).

Settlement of mode and value
- Shifts the data setting digit to the right (SHIFT+MODE).
- Determines the mode or the value (ENT).

7-Segment Indication



Parameter List

Basic parameters

No.	Name
01	Command pulse correction α
02	Command pulse correction β
03	Pulse train input form
04	Rotation direction change
05	Tuning mode
06	Load-inertia ratio
07	Auto-tuning gain
08, 09	Not used

Control system parameters

No.	Name
40	Position regulator gain 1
41	Speed response 1
42	Speed regulator integration time 1
43	Non-linear (S-curve) time constant
44	Feed forward gain
45	Feed forward filter time constant
46	Torque filter time constant
47	Speed setting filter
48	Gain changeover factor
49	Gain changeover level
50	Gain changeover time constant
51	Position regulator gain 2
52	Speed response 2
53	Speed regulator integration time 2
54	Position gain added in settled state
55	Limit value added in settled state
56	Selection of command follow-up control
57	Notch filter 1 frequency
58	Notch filter 1 damping rate
59	Notch filter 2 frequency
60	Notch filter 2 damping rate
61	Anti-resonant frequency 0
62	Anti-resonant frequency 1
63	Anti-resonant frequency 2
64	Anti-resonant frequency 3
65 to 79	Not used

Parameters for maker's adjustment

No.	Name
80	Reserved for maker 1
81	Reserved for maker 2
82	Reserved for maker 3
83	Reserved for maker 4
84 to 99	Not used

Do not change these parameters.

System parameters

No.	Name
10	CONT1 signal assignment
11	CONT2 signal assignment
12	CONT3 signal assignment
13	CONT4 signal assignment
14	CONT5 signal assignment
15	OUT1 signal assignment
16	OUT2 signal assignment
17	Output pulse count
18	Z-phase offset
19	Deviation zero width
20	Deviation over width
21	Speed zero width
22	Positioning end judgment time
23	Maximum current
24	Alarm detection at undervoltage
25	Computing electronic thermal relay for regenerative resistor
26	Dynamic brake active/inactive in OT detection
27	Parameter rewriting inhibit
28	Keypad panel initial display
29	Speed setting (for test operation)
30	Acceleration-deceleration time (for test operation)
31 to 39	Not used

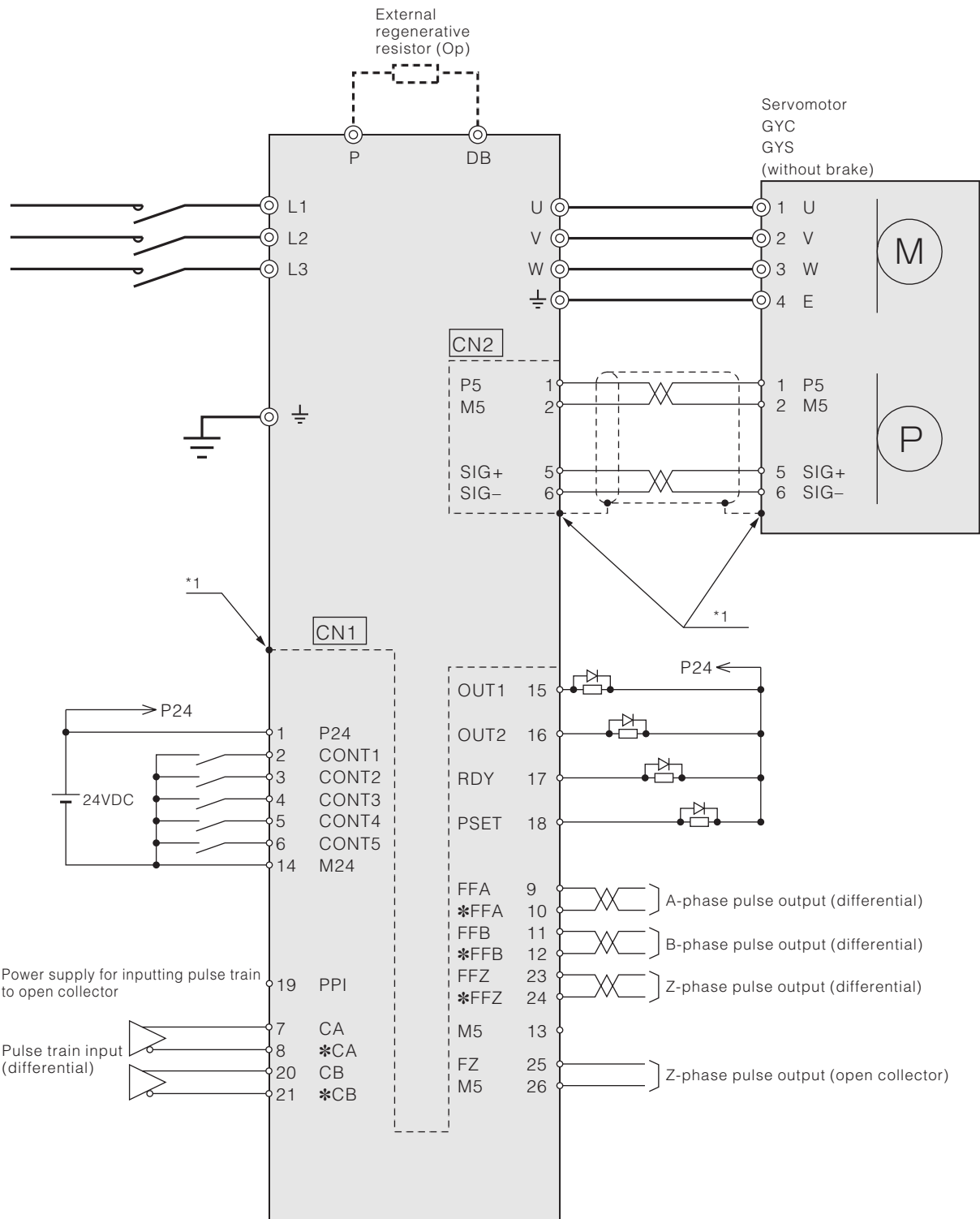
Function number assigned to CONT

0 : Not assigned	6 : P-action
1 : RUN	7 : Deviation clear
2 : RST	8 : External regenerative resistor overheat
3 : +OT	9 : Anti-resonant frequency 0
4 : -OT	10 : Anti-resonant frequency 1
5 : Emergency stop	

Function assigned to OUT

0 : Not assigned
1 : Alarm detection (contact "a")
2 : Alarm detection (contact "b")
3 : Dynamic braking
4 : OT detection
5 : Emergency stop detection

Connection Diagram (Reference)



*1: Connect the shielded lines of CN1 and CN2 to the connector shell. The connector shell is connected with FG (earth).



CAUTION

The above diagram 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.

Specifications for Servo Amplifier

Basic Specifications

Applicable motor rated speed	3000r/min							
Applicable motor output [W]	50	100	200	50	100	200	400	750
Amplifier type RYB□□□□□□□□□□	500S3-VBC6	101S3-VBC6	201S3-VBC6	500S3-VBC	101S3-VBC	201S3-VBC	401S3-VBC	751S3-VBC
Mass [kg]	0.6		0.7	0.6			0.7	1.0
Input	Phase	Single phase input			3-phase input (Single phase input is possible if motor output is 400 W or less.)			
	Voltage	AC100 to 115V -15 to +10%			AC200 to 230V -15 to +10%			
	Frequency	50/60Hz			50/60Hz			
Output	Control system	IGBT PWM sinusoidal PWM drive						
	Overload capability	3 [s]/300%						
	Braking	Regenerative braking to DC link circuit with regenerative resistor (op) externally installed						
Feedback	16-bit serial encoder for incremental position detection							
Capability and functions	Control system	Position control						
	Max. pulse frequency	Input: 1 [MHz] (differential), 200 [kHz] (open collector), output: 500 [kHz] (differential)						
	Position control resolution	2 ¹⁶ (= 65536)/revolution						
	Frequency response	600 Hz (at J _L = J _M)						
	Max. speed	5000r/min						
Major new functions	Vibration suppressing control, notch filter, command follow-up control, new auto-tuning, servo analysis function (PC loader option)							
Protective function (Alarm indication)	Overcurrent (01, 02), overspeed (03), overvoltage (04), encoder trouble (05), control power trouble (06, 07), memory error (08), combination error (09), regenerative transistor overheat (10), encoder communication error (11), control signal error (12), motor overload (13), undervoltage (14), regenerative resistor overheat (15), excessive deviation (16), amplifier overheat (17), encoder overheat (18), initial error (19)							
Working conditions	Installation place	Indoors (free from direct sunshine), altitude ≤1000m, free from corrosive and flammable gases, oil mist and dust In case of compliance with CE marking Models compliant with EU directive: Pollution degree = 2, Over voltage category = II						
	Temperature, humidity	-10 to +50 [°C], 10 to 90 [%] RH (without condensation)						
	Vibration/shock resistance	4.9 m/s ² (0.5 G)/ 19.6 m/s ² (2G)						
Compliance with standards	UL/cUL (UL508c) and CE marking (based on low-voltage directive EN50178)							

*Install an AC reactor if the connected power source capacity is 500kVA or over.

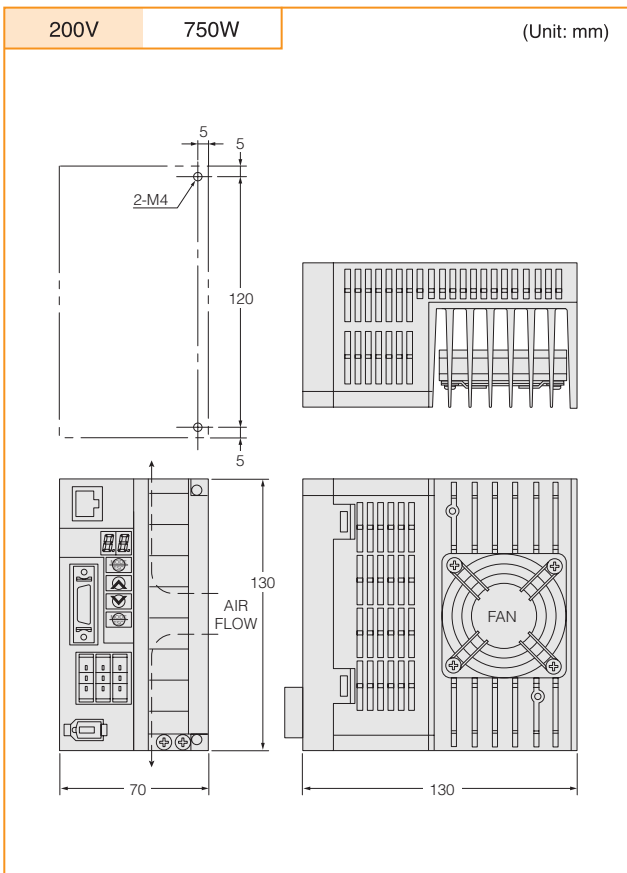
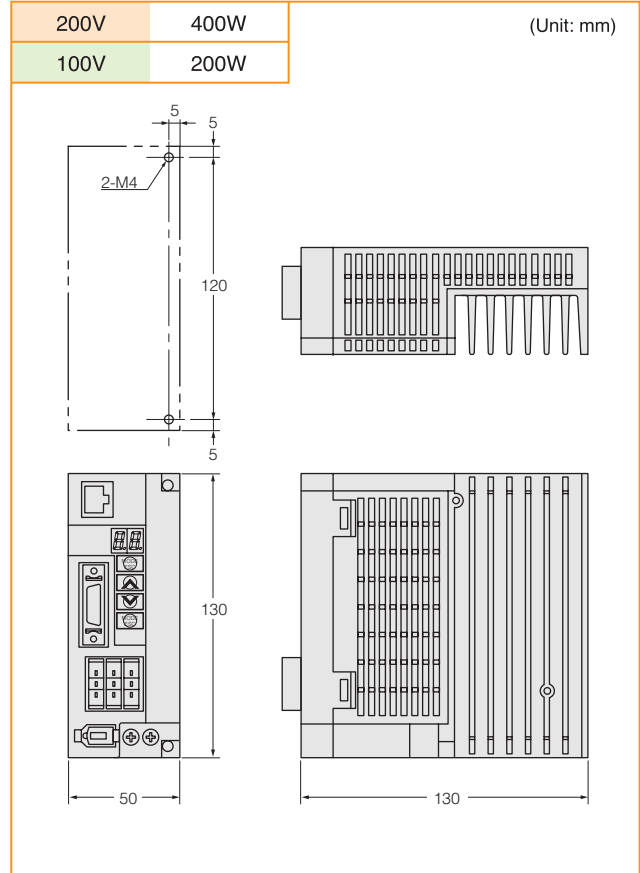
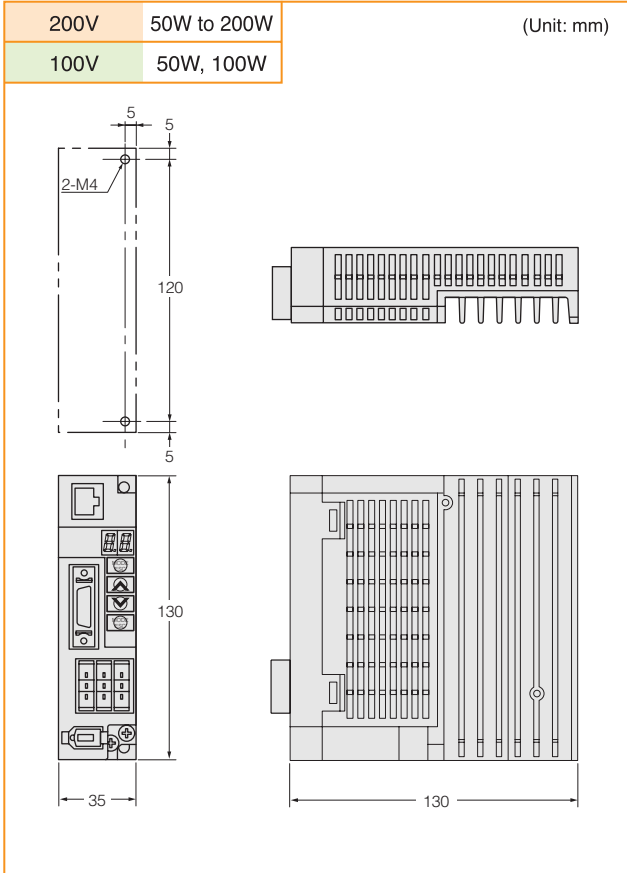
*Installation with close contact: 80%ED. At temperatures ≤ 45°C: 100%ED.

Interface Specifications

Terminal	Code	Specifications
Pulse train input	CA, *CA CB, *CB	Pulse train format Command pulse/code Forward/reverse pulse Two signals at 90-degree phase difference } Select one of these formats with a parameter setting
	PPI	Pull-up power input at open collector input: 12 to 24V DC
Frequency dividing output	FFA, *FFA FFB, *FFB	Differential output, two signals at 90-degree phase difference Setting output pulses: n = 16 to 16384 [pulses/rev]
	FFZ, *FFZ	Differential output [1 pulse/rev]
	FZ, M5	Open collector output [1 pulse/rev]
Power input for sequence signals	P24 M24	+24 V DC for sequence signals is input from outside. 300-mA power is required as external power source.
Sequence input signal	CONT1 to CONT5	ON upon short circuit of terminals to M24, OFF upon open circuit. +24 V DC, 10 mA (one-point) Terminals can be assigned to each function by parameter setting.
Sequence output signal	RDY PSET OUT1, OUT2	Short circuit to M24 terminal during ON 30 VDC/50 mA (max.) OUT1 and OUT2 to which control output signals are assigned

External Dimensions

Servo Amplifier



Specifications of Servomotor

GYS Motor

Standard specifications Note: Designate a key-incorporated motor to combine a gear head to all 100V models (50 to 200W) or 200V model (50W or 100W).

Motor type GYS□□□□□□-□□□□	500DC1(*1) -C8B	101DC1 -C6B	201DC1 -C6B	500DC1(*1) -C8B	101DC1 -CB	201DC1 -CA	401DC1 -CA	751DC1 -CA
Series	Single-phase 100V series			3-phase 200V series				
Rated output [W]	50	100	200	50	100	200	400	750
Rated torque [N·m]	0.159	0.318	0.637	0.159	0.318	0.637	1.27	2.39
Rated speed [r/min]	3000							
Max. speed [r/min]	5000							
Max. torque [N·m]	0.478	0.955	1.91	0.478	0.955	1.91	3.82	7.17
Moment of inertia [kg·m ²]	0.0192×10 ⁻⁴	0.0371×10 ⁻⁴	0.135×10 ⁻⁴	0.0192×10 ⁻⁴	0.0371×10 ⁻⁴	0.135×10 ⁻⁴	0.246×10 ⁻⁴	0.853×10 ⁻⁴
Rated current [A]	0.85	1.5	2.7	0.85	0.85	1.5	2.7	4.8
Max. current [A]	2.55	4.5	8.1	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 (IP55) (excluding the shaft sealing and connectors)							
Terminals (motor)	Cable 0.3 m (with connector)							
Terminals (encoder)	Cable 0.3 m (with connector)							
Overheat protection	Not provided (Servo amplifier detects temperature.)							
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)							
Shaft extension	Straight shaft without a key						Straight shaft with a key	
Paint color	N1.5							
Encoder	16-bit serial incremental encoder							
Vibration level	V5 or below							
Installation place, altitude, and environment	For indoor use, (free from direct sunlight), 1000 [m] or below, free from corrosive gas, flammable gas, oil mist and dust							
Ambient temperature, humidity	-10 to +40 [°C], 90 [%] RH max. (without condensation)							
Vibration resistance [m/s ²]	49							
Mass () indicates brake-incorporated type. [kg]	0.45 (0.62)	0.55 (0.72)	1.2 (1.7)	0.45 (0.62)	0.55 (0.72)	1.2 (1.7)	1.8 (2.3)	3.4 (4.2)
Compliance with standards	UL/cUL (UL1004), CE marking (EN60034-1, EN60034-5), RoHS directive							

*1) The same 50W motor is used for both single phase 100V and 3-phase 200V applications.

Brake specifications (motor equipped with a brake) Note: Designate a key-incorporated motor to combine a gear head to all 100V models (50 to 200W) or 200V model (50W or 100W).

Motor type GYS□□□□□□-□□□□-□	500DC1(*1) -C8B-B	101DC1 -C6B-B	201DC1 -C6B-B	500DC1(*1) -C8B-B	101DC1 -CB-B	201DC1 -CA-B	401DC1 -CA-B	751DC1 -CA-B	
Series	Single-phase 100V series			3-phase 200V series					
Static friction torque [N·m]	0.3			1.27		0.3		1.27	2.45
Rated DC voltage	DC24±10%								
Attraction time [ms]	35			40		35		40	60
Release time [ms]	10			20		10		20	25
Power consumption [W]	6.1 (at 20°C)			7.3 (at 20°C)		6.1 (at 20°C)		7.3 (at 20°C)	8.5 (at 20°C)

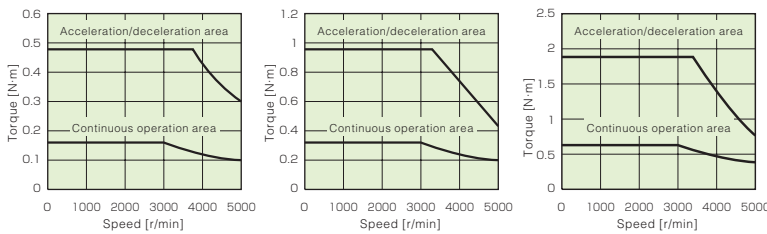
*1) The same 50W motor is used for both single phase 100V and 3-phase 200V applications.

*2) The brake is used to hold the rotor.

Torque characteristic diagrams

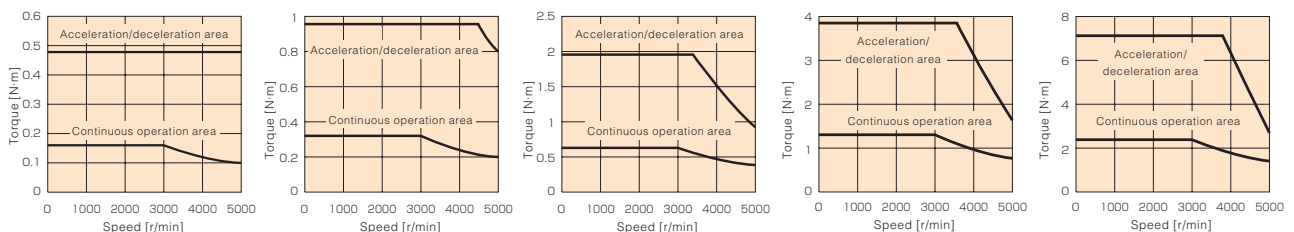
100V series

GYS500DC1-C8B *1	GYS101DC1-C6B	GYS201DC1-C6B
50W	100W	200W



200V series

GYS500DC1-C8B *1	GYS101DC1-CB	GYS201DC1-CA	GYS401DC1-CA	GYS751DC1-CA
50W	100W	200W	400W	750W



*1) GYS500DC1-C8B is used for both 100V and 200V series.

Specifications of Servomotor

GYC Motor

Standard specifications

Motor type GYC□□□□□□□□-□□□□	101DC1-CA	201DC1-CA	401DC1-CA	751DC1-CA
Series	3-phase 200V series			
Rated output [W]	100	200	400	750
Rated torque [N·m]	0.318	0.637	1.27	2.39
Rated speed [r/min]	3000			
Max. speed [r/min]	5000			
Max. torque [N·m]	0.955	1.91	3.82	7.17
Moment of inertia [kg·m ²]	0.0577×10 ⁻⁴	0.213×10 ⁻⁴	0.408×10 ⁻⁴	1.21×10 ⁻⁴
Rated current [A]	1.0	1.5	2.6	4.8
Max. current [A]	3.0	4.5	7.8	14.4
Winding insulation class	B			
Operation duty type	Continuous			
Degree of enclosure protection	Totally enclosed, self cooled (IP55) (excluding the shaft sealing and connectors)			
Terminals (motor)	Cable 0.3 m (with connector)			
Terminals (encoder)	Cable 0.3 m (with connector)			
Overheat protection	Not provided (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	16-bit serial incremental encoder			
Vibration level	V5 or below			
Installation place, altitude, atmosphere	For indoor use, (free from direct sunlight), 1000 [m] or below, free from corrosive gas, flammable gas, oil mist and dust			
Ambient temperature, humidity	-10 to +40 [°C], 90 [%] RH max. (without condensation)			
Vibration resistance [m/s ²]	49			
Mass () : with a brake [kg]	0.75 (1.0)	1.3 (1.9)	1.9 (2.6)	3.5 (4.3)
Standards	UL/cUL (UL1004), CE marking (EN60034-1, EN60034-5), RoHS directive			

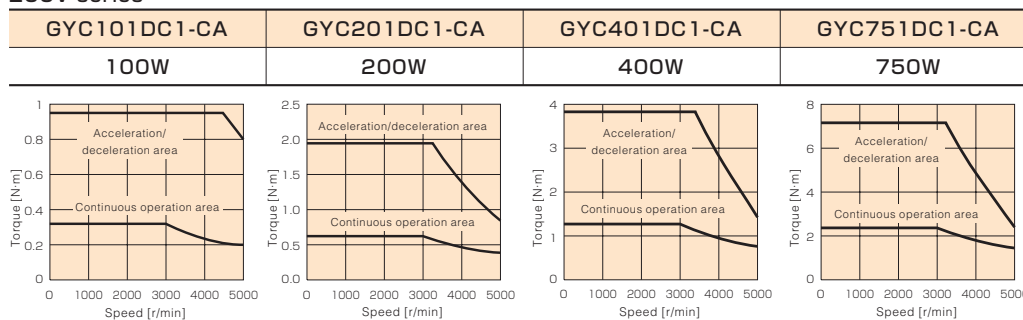
Brake specifications (motor equipped with a brake)

Motor type GYC□□□□□□□□-□□□□-□	101DC1-CA-B	201DC1-CA-B	401DC1-CA-B	751DC1-CA-B
Series	3-phase 200V series			
Static friction torque [N·m]	0.318		1.27	2.39
Rated DC voltage	DC24±10%			
Attraction time [ms]	60		80	50
Release time [ms]	40		40	80
Power consumption [W]	6.5 (at 20°C)		9.0 (at 20°C)	8.5 (at 20°C)

*1) The brake is used to hold the rotor.

Torque characteristic diagrams

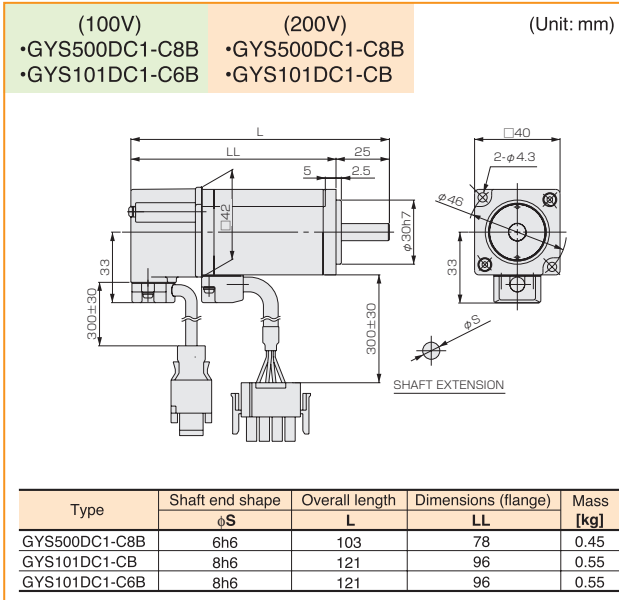
200V series



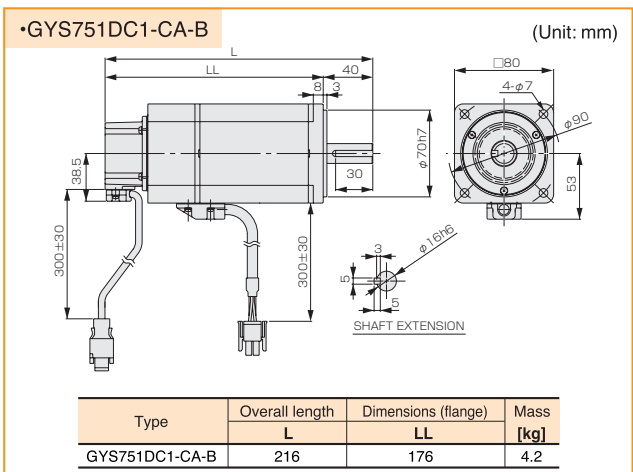
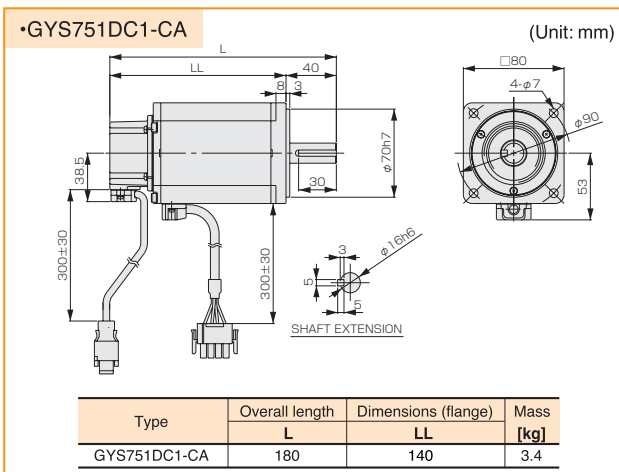
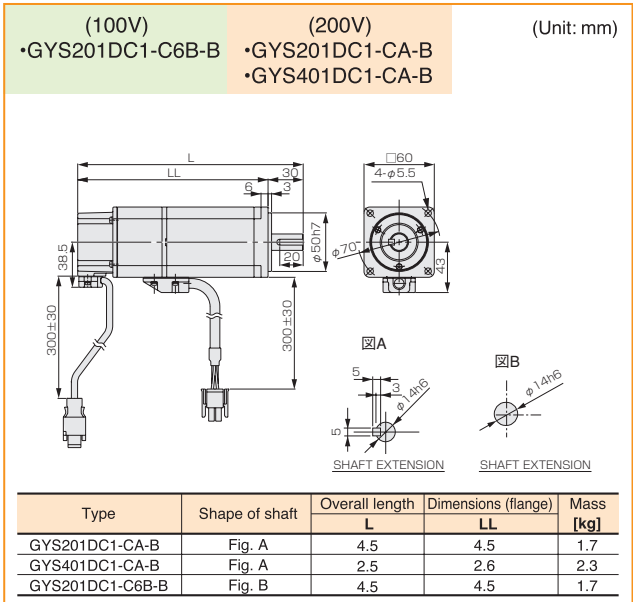
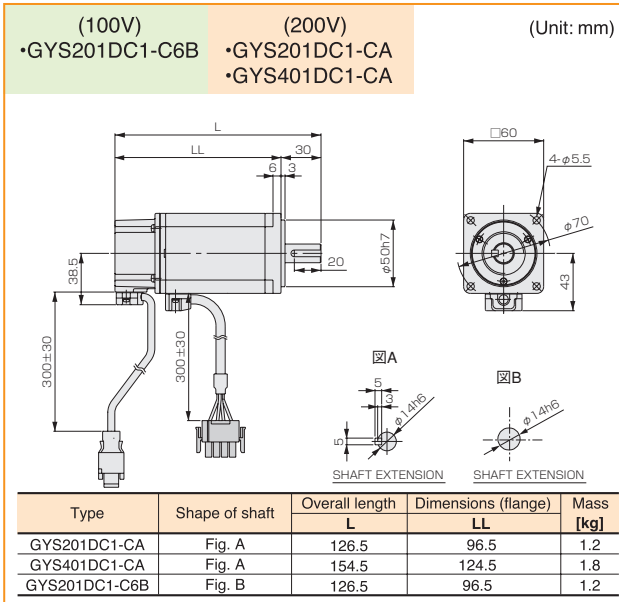
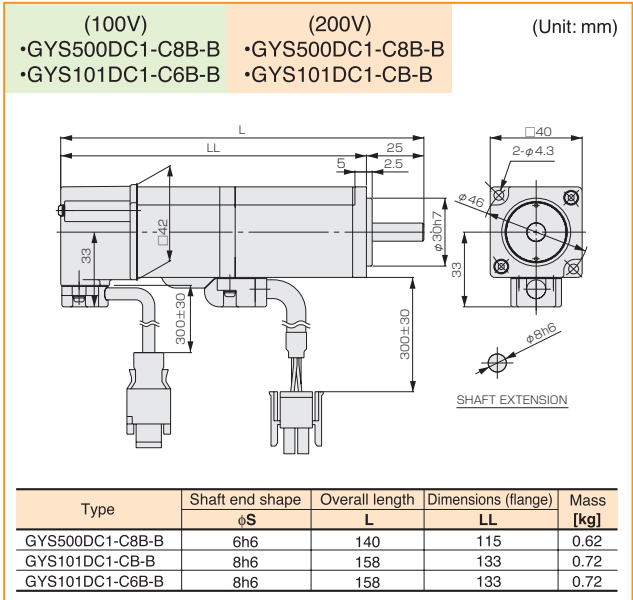
External Dimensions

GYS Motor

■Series: GYS series motor of standard type



■Series: GYS series motor with a brake



External Dimensions

GYC Motor

■Series: GYC series motor of standard type

•GYC101DC1-CA (Unit: mm)

Type	Overall length		Dimensions (flange)	Mass [kg]
	L	LL		
GYC101DC1-CA	100	75	75	0.75

■Series: GYC series motor with a brake

•GYC101DC1-CA-B (Unit: mm)

Type	Overall length		Dimensions (flange)	Mass [kg]
	L	LL		
GYC101DC1-CA-B	127.5	102.5	102.5	1.0

•GYC201DC1-CA •GYC401DC1-CA (Unit: mm)

Type	Overall length		Dimensions (flange)	Mass [kg]
	L	LL		
GYC201DC1-CA	112	82	82	1.3
GYC401DC1-CA	127	97	97	1.9

•GYC201DC1-CA-B •GYC401DC1-CA-B (Unit: mm)

Type	Overall length		Dimensions (flange)	Mass [kg]
	L	LL		
GYC201DC1-CA-B	143	113	113	1.9
GYC401DC1-CA-B	158	128	128	2.6

•GYC751DC1-CA (Unit: mm)

Type	Overall length		Dimensions (flange)	Mass [kg]
	L	LL		
GYC751DC1-CA	156.5	116.5	116.5	3.5

•GYC751DC1-CA-B (Unit: mm)

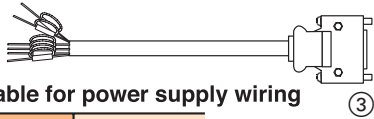
Type	Overall length		Dimensions (flange)	Mass [kg]
	L	LL		
GYC751DC1-CA-B	188.5	148.5	148.5	4.3

Option/Peripheral Equipment

Optional Cable

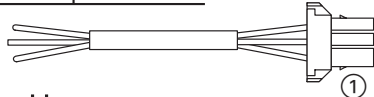
1. Cable for control input/output

Type	Length (m)
WSC-D26P03	3



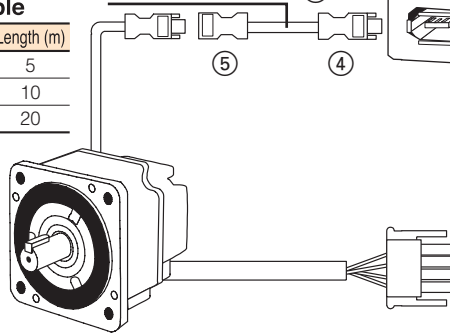
2. Power cable for power supply wiring

Type	Length (m)
WSC-S03P03-B	3



3. Encoder cable

Type	Length (m)
WSC-P06P05	5
WSC-P06P10	10
WSC-P06P20	20



4. Motor power cable

Type	Length (m)	Brake
WSC-M04P05-B	5	None
WSC-M04P10-B	10	
WSC-M04P20-B	20	
WSC-M06P05-B	5	Provided
WSC-M06P10-B	10	
WSC-M06P20-B	20	

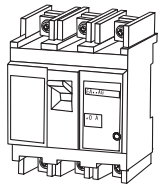
Optional connector and recommended cable size

*Prepare cables.

Series	Main circuit connector	Connector for control input /output wiring	Connector for encoder wiring (amplifier side)	Connector for encoder wiring (motor side)	Connector for motor power wiring
External view	<p>For power supply wiring ① For external regenerative resistor For motor power ②</p>	<p>③</p>	<p>④</p>	<p>⑤</p>	<p>⑥</p>
Type	For power supply wiring WSK-S03P-B For external regenerative resistor WSK-R03P-B For motor power WSK-M03P-B	WSK-D26P	WSK-P06P-M	WSK-P06P-F	Without brake WSK-M04P With brake WSK-M06P
Cable size (Common to all models)	For power supply wiring 0.75mm ² * For external regenerative resistor 0.75mm ² * For motor power 0.75mm ² *	AWG26 26-conductor batch shielded cable	Cross linked polyethylene vinyl sheath cable for robot travel (twisted type) RMCV-SB AWG#25/2P+AWG#23/2C (10m or shorter) AWG#25/2P+AWG#17/2C (50m or shorter) Made by DAIDEN Co., Ltd.	For motor power 0.75mm ² * For brake 0.75mm ² *	

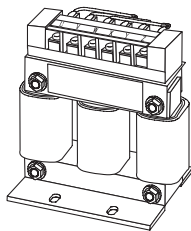
*Based on the 600V vinyl cable.

Option/Peripheral Equipment



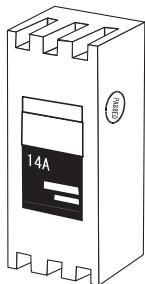
1. Molded case circuit breaker, earth leakage circuit breaker and electromagnetic contactor

Input power of amplifier	Servo amplifier type	Capacity [W]	Molded case circuit breaker	Earth leakage breaker	Electromagnetic contactor
3-phase 200V	RYP500S3-VBC	50	EA33AC/3	EG33AC/3	SC-03
	RYP101S3-VBC	100			
	RYP201S3-VBC	200			
	RYP401S3-VBC	400			
	RYP751S3-VBC	750			
Single-phase 200V	RYP500S3-VBC	50	EA32AC/3	EG32AC/3	
	RYP101S3-VBC	100	EA32AC/5	EG32AC/5	
	RYP201S3-VBC	200	EA32AC/10	EG32AC/10	
	RYP401S3-VBC	400			
	RYP500S3-VBC6	50	EA32AC/3	EG32AC/3	
Single-phase 100V	RYP101S3-VBC6	100	EA32AC/5	EG32AC/5	
	RYP201S3-VBC6	200	EA32AC/10	EG32AC/10	



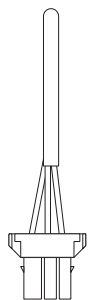
2. AC reactor

Input power of amplifier	Servo amplifier type	Capacity [W]	AC reactor
3-phase 200V	RYP500S3-VBC	50	ACR2-0.4A
	RYP101S3-VBC	100	
	RYP201S3-VBC	200	
	RYP401S3-VBC	400	
	RYP751S3-VBC	750	
Single-phase 200V	RYP500S3-VBC	50	ACR2-0.4A
	RYP101S3-VBC	100	ACR2-0.75A
	RYP201S3-VBC	200	ACR2-1.5A
	RYP401S3-VBC	400	
	RYP500S3-VBC6	50	ACR2-0.4A
Single-phase 100V	RYP101S3-VBC6	100	ACR2-0.75A
	RYP201S3-VBC6	200	ACR2-1.5A

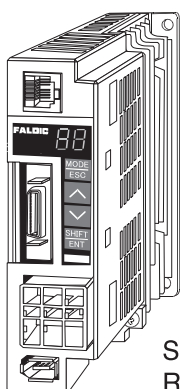


3. Power filter

Input power of amplifier	Servo amplifier type	Capacity [W]	Power filter
3-phase 200V	RYP500S3-VBC	50	RNFTC06-20
	RYP101S3-VBC	100	
	RYP201S3-VBC	200	
	RYP401S3-VBC	400	
	RYP751S3-VBC	750	
Single-phase 200V	RYP500S3-VBC	50	RNFTC06-20
	RYP101S3-VBC	100	RNFTC10-20
	RYP201S3-VBC	200	
	RYP401S3-VBC	400	
	RYP500S3-VBC6	50	RNFTC06-20
Single-phase 100V	RYP101S3-VBC6	100	RNFTC10-20
	RYP201S3-VBC6	200	



Power cable for power supply wiring WSC-S03P03-B



Servo amplifier RY□□□S3-VBC

4. External regenerative resistor

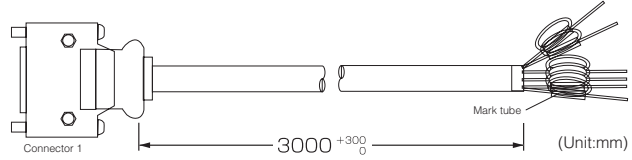
Input power of amplifier	Servo amplifier type	Capacity [W]	External regenerative resistor	
			Separate installation type*1	Thin type*2
3-phase 200V	RYP500S3-VBC	50	WSR-401	WSR-401-T
	RYP101S3-VBC	100		
	RYP201S3-VBC	200		
	RYP401S3-VBC	400		
	RYP751S3-VBC	750		
Single-phase 200V	RYP500S3-VBC	50	WSR-401	WSR-401-T
	RYP101S3-VBC	100		
	RYP201S3-VBC	200		
	RYP401S3-VBC	400		
	RYP500S3-VBC6	50		
Single-phase 100V	RYP101S3-VBC6	100		
	RYP201S3-VBC6	200		

*1) This resistor is installed separately from the amplifier. Because the amplifier connector is not included in the product, a separate connector (WSK-R03P-B) for the external regenerative resistor is necessary.
 *2) This resistor is installed on the side of the amplifier.

Option/Peripheral Equipment

External Dimensions of Options

Series : Cable for sequence input/output
 Type : WSC-D26P03
 Applicable amplifier : All models



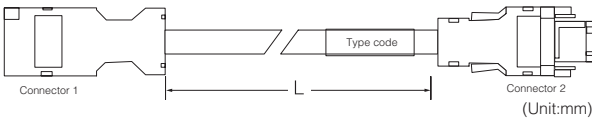
Connector 1

Plug	10126-3000PE
Shell	10326-52AO-008

Maker: Sumitomo 3M

Connector 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Mark tube	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Wire color	Orange	Gray	White	Yellow	Pink	Orange	Gray	White	Yellow	Pink	Orange	Gray	White	Yellow	Pink	Orange	Gray	White	Yellow	Pink	Orange	Gray	White	Yellow	Pink	Orange
Mark	Red 1	Black 1	Red 1	Black 1	Red 1	Black 1	Red 1	Black 1	Red 1	Black 1	Red 2	Black 2	Red 2	Black 2	Red 2	Black 2	Red 2	Black 2	Red 2	Black 2	Red 3	Black 3	Red 3	Black 3	Red 3	Black 3

Series : Cable for servo motor encoder
 Type : WSC-P06P05 to WSC-P06P20
 Applicable range : All models



Type	L
WSC-P06P05	5000 ⁺⁵⁰⁰ / ₀
WSC-P06P10	10000 ⁺¹⁰⁰⁰ / ₀
WSC-P06P20	20000 ⁺²⁰⁰⁰ / ₀

Connector 1	1	2	3	4	5	6
Wire color	Red	Black	Orange	Brown	Orange/White	Light blue
Mark	White	Black	Yellow	Brown	Orange/White	Red

Connector 1	1	2	3	4
Socket housing	53988-0619			
Socket shell body cover	58302-0628			
Socket mold cover	53989-0605			
Socket mold cover	53990-0605			
Cable clamp	58303-0000			
Clamp screw	59832-0009			

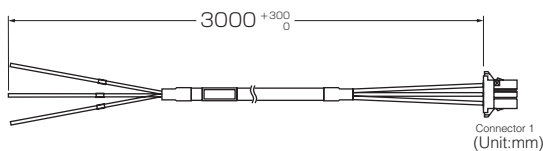
Connector 2	1	2	3	4	5	6
Plug housing	54180-0619					
Plug shell body cover	58299-0626					
Plug shell body	58300-0626					
Plug mold cover (A)	54181-0615					
Plug mold cover (B)	54182-0605					
Cable clamp	58303-0000					
Clamp screw	59832-0009					

Maker: Molex Japan

Maker: Molex Japan

* Type of Connector 1 and Connector 2 are different from connector kit.

Series : Power cable for power supply wiring
 Type : WSC-S03P03-B
 Applicable range : All models

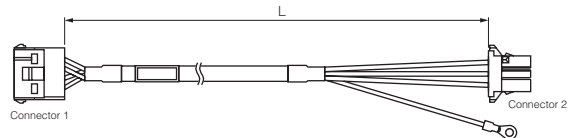


Connector 1	1	2	3
Recp. housing	1-178128-3		
Contact	1-175196-5		

Maker: Tyco electronics AMP

Connector 1	1	2	3
Mark	L1	L2	L3
Wire color	Red	White	Black

Series : Power cable for motor wiring
 Type : WSC-M04P05-B to WSC-M04P20-B
 Applicable range : Motor without a brake, GYS/GYC, ≤0.75kW



Type	L
WSC-M04P05-B	5000 ⁺⁵⁰⁰ / ₀
WSC-M04P10-B	10000 ⁺¹⁰⁰⁰ / ₀
WSC-M04P20-B	20000 ⁺²⁰⁰⁰ / ₀

Connector 1	1	2	3	4
Cap housing	350780-1			
Socket	350570-3			

Maker: Tyco electronics AMP

Connector 1	1	2	3	4
Mark	U	V	W	E
Wire color	Red	White	Black	Green/Yellow

Connector 2	1	2	3	4
Recp. Housing	2-178128-3			
Contact	1-175218-5			

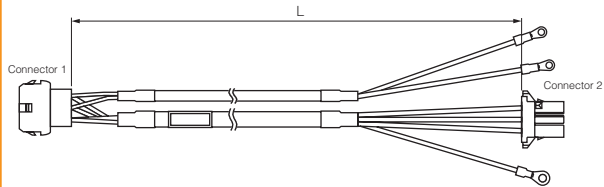
Maker: Tyco electronics AMP

Connector 2	1	2	3	4
Mark	U	V	W	E
Wire color	Red	White	Black	Green/Yellow

(Unit:mm)
 Terminal connected to earth terminal of servo amplifier V1.25-4 from DST Mfg.

Series : Power cable for motor wiring
 Type : WSC-M06P05-B to WSC-M06P20-B
 Applicable range : Motor with a brake, GYS/GYC, ≤0.75kW

Terminal connected to the brake control power FV1.25-MS3 from DST Mfg.



Type	L
WSC-M04P05-B	5000 ⁺⁵⁰⁰ / ₀
WSC-M04P10-B	10000 ⁺¹⁰⁰⁰ / ₀
WSC-M04P20-B	20000 ⁺²⁰⁰⁰ / ₀

Connector 1	1	2	3	4	5	6
Cap housing	350781-1					
Socket	350570-3					

Maker: Tyco electronics AMP

Connector 1	1	2	3	4	5	6
Mark	U	V	W	E		
Wire color	Red	White	Black	Yellow	Red	Black

Connector 2	1	2	3	Round terminal
Recp. housing	2-178128-3			
Contact	1-175218-5			

Maker: Tyco electronics AMP

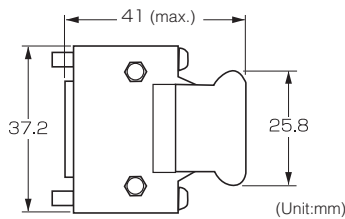
Connector 2	1	2	3	Round terminal
Mark	U	V	W	E
Wire color	Red	White	Black	Yellow

(Unit:mm)
 Terminal connected to earth terminal of servo amplifier V1.25-4 from DST Mfg.

Option/Peripheral Equipment

External Dimensions of Options

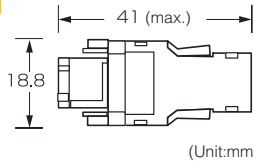
Series : Connector kit for sequence input/output
 Type : WSK-D26P
 Applicable range : All models



Soldered plug	10126-3000PE
Shell kit	10326-52AO-008

Maker: Sumitomo 3M

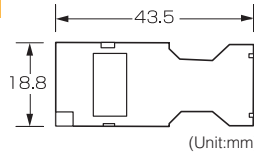
Series : Connector kit for encoder wiring
 Type : WSK-P06P-M
 Applicable range : All models (amplifier side)



Plug housing	54180-0619
Plug shell body cover	58299-0626
Plug shell body	58300-0626
Plug mold cover (A)	54181-0615
Plug mold cover (B)	54182-0605
Cable clamp	58303-0000
Clamp screw	59832-0009

(Unit:mm) Maker: Molex Japan

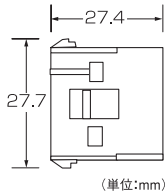
Series : Connector kit for encoder wiring
 Type : WSK-P06P-F
 Applicable range : All models (motor side)



Socket housing	53988-0619
Socket shell body cover	58302-0628
Socket mold cover (A)	58989-0605
Socket mold cover (B)	53990-0605
Cable clamp	58303-0000
Clamp screw	59832-0009

(Unit:mm) Maker: Molex Japan

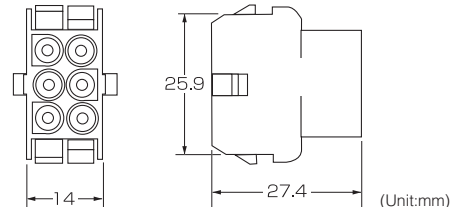
Series : Connector kit for power cables of motor wiring
 Type : WSK-M04P
 Applicable range : GYS/GYC, ≤0.75kW(for a motor without a brake)



Cap housing	350780-1
Socket	350689-3

Maker: Tyco electronics AMP

Series : Connector kit for power cables of motor wiring
 Type : WSK-M06P
 Applicable range : GYS/GYC, ≤0.75kW(for a motor with a brake)



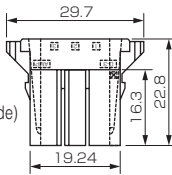
Cap housing	350781-1
Socket	350689-3

Maker: Tyco electronics AMP

Series : Connector kit for power cables of motor wiring (amplifier side)
 Type : WSK-M03P-B
 Applicable range : All models



Series : Connector kit for power supply wiring (amplifier side)
 Type : WSK-S03P-B
 Applicable range : All models



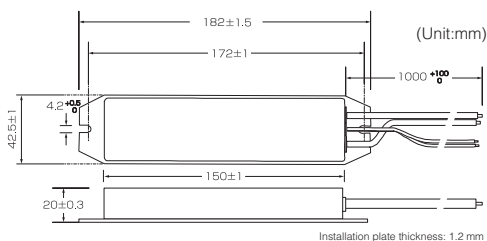
Series : Connector kit for external regenerative resistor (amplifier side)
 Type : WSK-R03P-B
 Applicable range : All models

Connector kit for power cables of motor wiring WSK-M03P-B	Housing	2-178128-3
	Contact	1-175218-5
Connector kit for power supply wiring WSK-S03P-B	Recp. housing	1-178128-3
	Contact	1-175218-5
Connector kit for external regenerative resistor WSK-R03P-B	Recp. housing	1-178128-3
	Contact	1-175218-5 or 1-917511-5
	Keying plug	175855-1

Maker: Tyco electronics AMP

(Unit:mm)

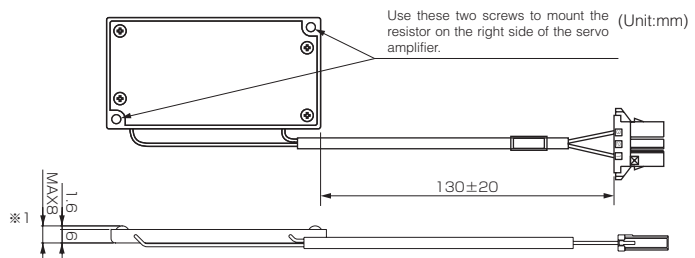
Series : External regenerative resistor
 Type : WSR-401
 Applicable range : 3-phase 200V amplifier, ≤400W



Item	Specifications	
Type	WSR-401	
Resistor	Resistance	68 Ω
	Allowable power	30 W (continuous)
	Working temperature	Open at 135±5 [°C]
Thermostat	Withstand voltage	2.5 kV AC for 1 min
	Contact capacity	DC30V 3A

*WSK-R03P-B is need for WSR-401.

Series : External regenerative resistor (thin type)
 Type : WSR-401-T, WSR-751-T
 Applicable range : WSR-401-T 3-phase 200V amplifier, ≤400W
 WSR-751-T 3-phase 200V amplifier, 750W
 Single-phase 100V amplifier, ≤200W



Type	WSR-401-T	WSR-751-T	
Applicable range	3-phase 200V, ≤400W	3-phase 200V, ≤750W	Single-phase 100V, ≤200W
Resistor	Resistance	68 [Ω]	33 [Ω]
	Allowable power	12 W (continuous)	25 W (continuous)*2
		12 W (continuous)	

*1 If the resistor is installed on the side of the amplifier, the width of the amplifier increases by up to 10mm.
 *2 If the resistor is installed on the side of the 750W amplifier, the cooling effect of the cooling fan of the amplifier increases the allowable power to 25 (W).

Model List

Servo Motor

【GYS motor】

Specifications				Part Code	Type	Delivery
Without brake	100[V] /200[V]	Without key	50 W	GYS1061	GYS500DC1-C8B	◎
		With key		—	GYS500DC1-C8A	△
	200[V]	Without key	100 W	GYS1062	GYS101DC1-CB	◎
		With key		—	GYS101DC1-CA	△
		With key	200 W	GYS1063	GYS201DC1-CA	◎
			400 W	GYS1064	GYS401DC1-CA	◎
			750 W	GYS1065	GYS751DC1-CA	◎
			—	GYS1102	GYS101DC1-C6A	△
	100[V]	Without key	100 W	—	GYS101DC1-C6A	△
		With key		GYS1103	GYS201DC1-C6B	◎
		Without key	200 W	—	GYS201DC1-C6A	△
		With key		—	GYS201DC1-C6A	△
With brake	100[V] /200[V]	Without key	50 W	GYS1081	GYS500DC1-C8B-B	◎
		With key		—	GYS500DC1-C8A-B	△
	200[V]	Without key	100 W	GYS1082	GYS101DC1-CB-B	◎
		With key		—	GYS101DC1-CA-B	△
		With key	200 W	GYS1083	GYS201DC1-CA-B	◎
			400 W	GYS1084	GYS401DC1-CA-B	◎
			750 W	GYS1085	GYS751DC1-CA-B	◎
			—	GYS1112	GYS101DC1-C6B-B	◎
	100[V]	Without key	100 W	—	GYS101DC1-C6A-B	△
		With key		—	GYS101DC1-C6A-B	△
		Without key	200 W	GYS1113	GYS201DC1-C6B-B	◎
		With key		—	GYS201DC1-C6A-B	△

◎ : Stock ○ : Make to order

【GYC motor】

Specifications				Part Code	Type	Delivery
Without brake	200[V]	With key	100 W	GYC1040	GYC101DC1-CA	◎
			200 W	GYC1041	GYC201DC1-CA	◎
			400 W	GYC1042	GYC401DC1-CA	◎
			750 W	GYC1043	GYC751DC1-CA	◎
With brake	200[V]	With key	100 W	GYC1050	GYC101DC1-CA-B	◎
			200 W	GYC1051	GYC201DC1-CA-B	◎
			400 W	GYC1052	GYC401DC1-CA-B	◎
			750 W	GYC1053	GYC751DC1-CA-B	◎

◎ : In stock

Servo Amplifier

Input voltage	Applied motor capacity	Part Code	Type	Delivery
3-phase 200V	50 W	RYB1001	RYB500S3-VBC	◎
	100 W	RYB1002	RYB101S3-VBC	◎
	200 W	RYB1003	RYB201S3-VBC	◎
	400 W	RYB1004	RYB401S3-VBC	◎
	750 W	RYB1005	RYB751S3-VBC	◎
Single-phase 100V	50 W	RYB3001	RYB500S3-VBC6	○
	100 W	RYB3002	RYB101S3-VBC6	○
	200 W	RYB3003	RYB201S3-VBC6	○

◎ : In stock ○ : Quasi standard

Options

Part Name			Part Code	Type	Delivery
Sequence input/output cable	Common to all models (with 26 pin connector)	3 m (one-end connector)	RYWS801	WSC-D26P03	◎
Encoder cable	Common to all models	5 m (both-end connector)	RYWS803	WSC-P06P05	◎
		10 m (both-end connector)	RYWS804	WSC-P06P10	◎
		20 m (both-end connector)	RYWS805	WSC-P06P20	◎
		5 m (both-end connector)	RYWS812	WSC-M04P05-B	◎
Power cable for motor wiring	Motor without a brake	10 m (both-end connector)	RYWS813	WSC-M04P10-B	◎
		20 m (both-end connector)	RYWS814	WSC-M04P20-B	◎
		5 m (both-end connector)	RYWS818	WSC-M06P05-B	◎
	Motor with a brake	10 m (both-end connector)	RYWS819	WSC-M06P10-B	◎
		20 m (both-end connector)	RYWS820	WSC-M06P20-B	◎
		3 m (one-end connector)	RYWS824	WSC-S03P03-B	◎
Power cable for power supply wiring	Between power input and amplifier (common to all models)	3 m (one-end connector)	RYWS824	WSC-S03P03-B	◎
Connector kit for sequence input/output	26-pin connector	—	RYWS021	WSK-D26P	◎
Connector kit for encoder wiring	Amplifier (common to all models)	—	RYWS023	WSK-P06P-M	◎
	Motor (common to all models)	—	RYWS024	WSK-P06P-F	◎
Power cable connector kit for motor wiring	Amplifier (common to all models)	—	RYWS034	WSK-M03P-B	◎
	Motor (without motor, 4 pin)	—	RYWS026	WSK-M04P	◎
	Motor (with motor, 6 pin)	—	RYWS028	WSK-M06P	◎
Power cable connector kit for power supply wiring	Amplifier (common to all models)	—	RYWS033	WSK-S03P-B	◎
Power cable connector kit for external regenerative resistor	Amplifier (common to all models)	—	RYWS035	WSK-R03P-B	◎
External regenerative resistor	Max. 0.4 kW *1	—	RYWS010	WSR-401	◎
		—	RYWS013	WSR-401-T	◎
		—	RYWS014	WSR-751-T	◎
PC loader connection *2	Conversion adaptor	Common to all β models	NWOH003	NWOH-CNV	◎
	Cable	Common to all β models	RYWS005	WSC-PCL	◎

*1) When using the resistor WSR-401, order the power cable connector kit for external regenerative resistor type WSK-R03P-B.

◎ : In stock

*2) Software for PC loader can be downloaded from Fuji's website.

<http://www.fujielectric.co.jp/fcs/>

■ To all our customers who purchase Fuji Electric FA Components & Systems' products:

Please take the following items into consideration when placing your order.

When requesting an estimate and placing your orders for the products included in these materials, please be aware that any items such as specifications which are not specifically mentioned in the contract, catalog, specifications or other materials will be as mentioned below.

In addition, the products included in these materials are limited in the use they are put to and the place where they can be used, etc., and may require periodic inspection. Please confirm these points with your sales representative or directly with this company.

Furthermore, regarding purchased products and delivered products, we request that you take adequate consideration of the necessity of rapid receiving inspections and of product management and maintenance even before receiving your products.

1. Free of Charge Warranty Period and Warranty Range

1-1 Free of charge warranty period

- (1) The product warranty period is "1 year from the date of purchase" or 24 months from the manufacturing date imprinted on the name plate, whichever date is earlier.
- (2) However, in cases where the use environment, conditions of use, use frequency and times used, etc., have an effect on product life, this warranty period may not apply.
- (3) Furthermore, the warranty period for parts restored by Fuji Electric's Service Department is "6 months from the date that repairs are completed."

1-2 Warranty range

- (1) In the event that breakdown occurs during the product's warranty period which is the responsibility of Fuji Electric, Fuji Electric will replace or repair the part of the product that has broken down free of charge at the place where the product was purchased or where it was delivered. However, if the following cases are applicable, the terms of this warranty may not apply.
 - 1) The breakdown was caused by inappropriate conditions, environment, handling or use methods, etc. which are not specified in the catalog, operation manual, specifications or other relevant documents.
 - 2) The breakdown was caused by the product other than the purchased or delivered Fuji's product.
 - 3) The breakdown was caused by the product other than Fuji's product, such as the customer's equipment or software design, etc.
 - 4) Concerning the Fuji's programmable products, the breakdown was caused by a program other than a program supplied by this company, or the results from using such a program.
 - 5) The breakdown was caused by modifications or repairs affected by a party other than Fuji Electric.
 - 6) The breakdown was caused by improper maintenance or replacement using consumables, etc. specified in the operation manual or catalog, etc.
 - 7) The breakdown was caused by a chemical or technical problem that was not foreseen when making practical application of the product at the time it was purchased or delivered.
 - 8) The product was not used in the manner the product was originally intended to be used.
 - 9) The breakdown was caused by a reason which is not this company's responsibility, such as lightning or other disaster.
- (2) Furthermore, the warranty specified herein shall be limited to the purchased or delivered product alone.
- (3) The upper limit of the warranty range shall be as specified in item (1) above and any damages (damage to or loss of machinery or equipment, or lost profits from the same, etc.) consequent to or resulting from breakdown of the purchased or delivered product shall be excluded from coverage by this warranty.

1-3. Trouble diagnosis

As a rule, the customer is requested to carry out a preliminary trouble diagnosis. However, at the customer's request, this company or its service network can perform the trouble diagnosis on a chargeable basis. In this case, the customer is asked to assume the burden for charges levied in accordance with this company's fee schedule.

2. Exclusion of Liability for Loss of Opportunity, etc.

Regardless of whether a breakdown occurs during or after the free of charge warranty period, this company shall not be liable for any loss of opportunity, loss of profits, or damages arising from special circumstances, secondary damages, accident compensation to another company, or damages to products other than this company's products, whether foreseen or not by this company, which this company is not be responsible for causing.

3. Repair Period after Production Stop, Spare Parts Supply Period (Holding Period)

Concerning models (products) which have gone out of production, this company will perform repairs for a period of 7 years after production stop, counting from the month and year when the production stop occurs. In addition, we will continue to supply the spare parts required for repairs for a period of 7 years, counting from the month and year when the production stop occurs. However, if it is estimated that the life cycle of certain electronic and other parts is short and it will be difficult to procure or produce those parts, there may be cases where it is difficult to provide repairs or supply spare parts even within this 7-year period. For details, please confirm at our company's business office or our service office.

4. Transfer Rights

In the case of standard products which do not include settings or adjustments in an application program, the products shall be transported to and transferred to the customer and this company shall not be responsible for local adjustments or trial operation.

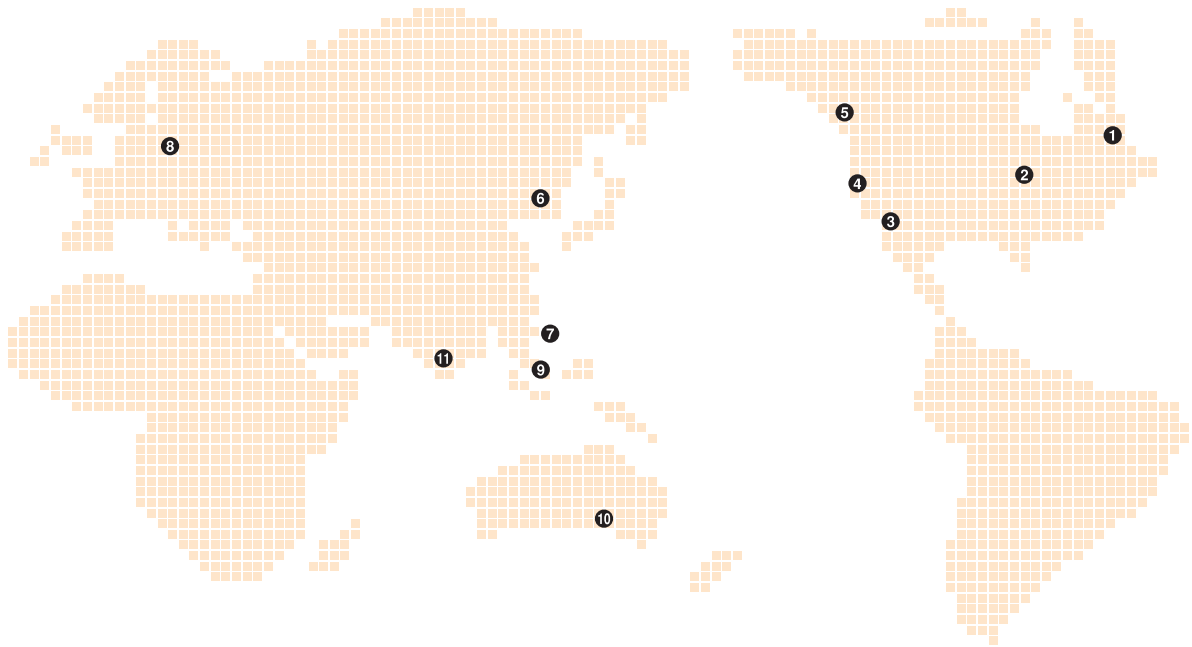
5. Service Contents

The cost of purchased and delivered products does not include the cost of dispatching engineers or service costs. Depending on the request, these can be discussed separately.

6. Applicable Scope of Service

Above contents shall be assumed to apply to transactions and use of the country where you purchased the products. Consult the local supplier or Fuji for the detail separately.

Service Network



Fuji FA Service Centers

- Overseas Service Center
[Service Area: Far East Asia]
5-7, Nihonbashi
Odemma-cho, Chuo-ku, Tokyo, 103-0011, Japan
Phone: (03)5847-8072
- USA Service Center
[Service Area: USA, Canada, Central & South America]
5550 Cerritos Ave. Suite H Cypress, CA. 90630
USA
Phone: (714)220-1879
- CHICAGO Service Station
4825 N. Scott St. Suite 210, Schiller Park, IL 60176
USA
Phone: (847)233-9844
- EC Service Center
[Service Area: Europe, Middle East & Africa]
Goethering 58, 63067
Oftenbach/ Main Germany
Phone: (69)669029-0
- South East Asia & Oceania Service Center
[Service Area: SE & S Asia, Oceania]
171 Chin Swee Road, #12-01,
San Centre, Singapore 169877
Phone: (6481)5079
- FUJI-ELECTRIC TECHNOLOGY AND SERVICE (SHENZHEN) CO., LTD
[Service Area: China]
5F, Liming Bldg., No.144,
Zhongxing Rd., Luohu District, Shenzhen
Phone: (0755)8220-2745, 8218-4287

Contracted Service Companies

- USA, Canada, Central & South America Area
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OESS CORPORATION(Head Office:NEW JERSEY)
- ① NEW JERSEY
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Phone: (201)288-4422
- ② CHICAGO
4825 N Scott Suite 210, Schiller park, IL 60176, USA
Phone: (847)233-9412
- ③ LOS ANGELES
5550 Cerritos Ave. Suite H, Cypress, CA 90630
USA
Phone: (714)220-1879
- ④ SAN JOSE
1440, Koll Circle, Suite 107, San Jose, CA 95112
USA
Phone: (408)437-1582
- ⑤ PORTLAND
7921 SW Cirrus Drive, Beaverton, OR 97008, USA
Phone: (503)520-5044
- Far East Asia Area
- ⑥ KOREA
GAIUS INDUSTRIES CO., LTD.
Cana Bldg., 10-59, Yangjae-Dong, Seocho-Gu,
Seoul, 137-887, R.O. KOREA
Phone: (02)3463-0766

- ⑦ TAIWAN
ELTA Electrical Co., Ltd.
4F, No.32, Sec. 3, Cheng TehRoad,
Taipei, Taiwan
Phone: (02)2597-6458
- ⑦ TAIWAN
Full Key International Technology Ltd
12F, No.111-8, HSING TEH RD., SAN-CHUNG
CITY, TAIPEI, TAIWAN
Phone: (02)2995-2008
- Europe, Middle East & Africa Area
- ⑧ F.R.GERMANY
OESS GmbH.
Senefelder Strasse 1, 63110 Rodgau,
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- ⑨ SINGAPORE
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SAFETY PRECAUTIONS

1. This catalog is intended for use in selecting required servo systems. Before actually using these products, carefully read their instruction manuals and understand their correct usage.
2. Products described in this catalog are neither designed nor manufactured for combined use with a system or equipment that will affect human lives.
If you are considering using these products for special purposes such as atomic energy control, use in aerospace, medical application, or traffic control, you are requested to consult our sales office.
3. If you use our product with anticipation that a trouble of our product may induce serious injury or damage to your property, be sure to take safety measures for protecting human body and equipment.

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