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Middle Inertia GYB Motor [3000r/min]

■ Standard specifications

Motor type (-B) indicates the brake-incorporated type.	GYB201 D5-□□(-B)	GYB401 D5-□□(-B)	GYB751 D5-□□(-B)
Rated output [kW]	0.2	0.4	0.75
Rated torque [N · m]	0.637	1.27	2.39
Rated speed [r/min]	3000		
Max. speed [r/min]	6000*1		
Max. torque [N · m]	1.91	3.82	7.17
Inertia [kg · m^2]	0.24×10^{-4}	0.42×10^{-4}	1.43×10^{-4}
( ) indicates brake-incorporated type.	(0.29×10^{-4})	(0.46×10^{-4})	(1.61×10^{-4})
Rated current [A]	1.5	2.7	5.2
Max. current [A]	4.5	8.1	15.6
Winding insulation class	Class B		
Degree of enclosure protection	Totally enclosed, self-cooled (IP 67. excluding the shaft-through)*2		
Terminals (motor)	0.3m cable		
Terminals (encoder)	0.3m cable		
Overheat protection	Not provided (The servo amplifier detects temperature.)		
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)		
Encoder	18-bit serial encoder (absolute/incremental), 20-bit serial encoder (incremental)		
Vibration level	V5 or below		
Installation place, altitude and environment	For indoor use (free from direct sunlight), 1000m or below, locations without corrosive and flamable gases, oil mist and dust		
Ambient temperature, humidity	-10 to +40°C, within 90% RH (without condensation)		
Vibration resistance [m/s^2]	49		
Mass [kg]	1.0	1.5	3.0
( ) indicates brake-incorporated type.	(1.5)	(2.1)	(3.9)
Compliance with standards	UL/cUL (UL508c) (Some models are in the process to be certified), CE marking (low power directive EN61800-5-1), RoHS directive.		

*1: The max. speed of 5000r/min can be reached by using it with Fuji's gear head

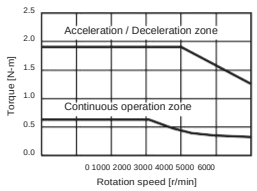
*2: Protection degree IP67 is initial value

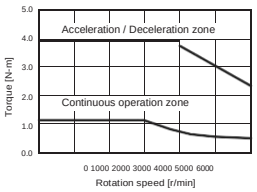
■ Brake specifications (motor equipped with a brake)

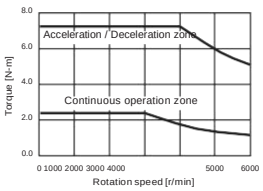
Motor type	GYB201 D5□2-B	GYB401 D5□2-B	GYB751 D5□2-B
Static friction torque [N · m]	1.27		2.45
Rated DC voltage [V]	DC24±10%		
Attraction time [ms]	40		60
Release time [ms]	20		25
Power consumption [W]	7.2 (at 20 °C)		8.5 (at 20 °C)

■ Torque characteristics diagrams (at 3-phase 200 [V] or single-phase 230 [V] source voltage)

GYB201D5-□□	GYB401D5-□□	GYB751D5-□□
0.2kW	**0.4kW**	**0.75kW**







These characteristics indicate typical values of each servomotor combined with the corresponding servo amplifier RYH series.
The rated torque indicates the value obtained when the servo amplifier is installed to the following aluminum heat sink.

- Model GYB201, 401 : 250 × 250 × 6 [mm]
- Model GYB751 : 300 × 300 × 6 [mm]

Middle Inertia GYG Motor [2000r/min, 1500r/min]

Standard specifications

Motor type (-B) indicates the brake-incorporated type.	GYG501C5 -□□2 (-B)	GYG751C5 -□□2 (-B)	GYG102C5 -□□2 (-B)	GYG152C5 -□□2 (-B)	GYG202C5 -□□2 (-B)	GYG501B5 -□□2 (-B)	GYG851B5 -□□2 (-B)	GYG132B5 -□□2 (-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
Rated speed [r/min]	2000					1500		
Max. speed [r/min]	3000							
Max. torque [N · m]	7.2	10.7	14.3	21.5	28.6	9.5	16.2	24.8
Inertia [kg · m^2]	7.96×10^{-4}	11.55×10^{-4}	15.14×10^{-4}	22.33×10^{-4}	29.51×10^{-4}	11.55×10^{-4}	15.15×10^{-4}	22.33×10^{-4}
( ) indicates brake-incorporated type.	(10.0×10^{-4})	(13.6×10^{-4})	(17.2×10^{-4})	(24.4×10^{-4})	(31.6×10^{-4})	(13.6×10^{-4})	(17.3×10^{-4})	(24.5×10^{-4})
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							
Degree of enclosure protection	Totally enclosed, self-cooled (IP 67. excluding the shaft-through)*2							
Terminals (motor)	Cannon connector							
Terminals (encoder)	Cannon connector							
Overheat protection	Not provided (The servo amplifier detects temperature.)							
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)							
Encoder	18-bit serial encoder (absolute/incremental), 20-bit serial encoder (incremental)							
Vibration level	V10 or below							
Installation place, altitude and environment	For indoor use (free from direct sunlight), 1000m or below, locations without corrosive and flamable gases, oil mist and dust							
Ambient temperature, humidity	-10 to +40°C, within 90% RH (without condensation)							
Vibration resistance [m/s^2]	24.5							
Mass [kg]	5.3	6.4	7.5	9.8	12.0	6.4	7.5	9.8
( ) indicates brake-incorporated type.	(7.5)	(8.6)	(9.7)	(12.0)	(14.2)	(8.6)	(9.7)	(12.0)
Compliance with standards	UL/cUL (UL1004), CE marking (EN60034-1, EN60034-5), RoHS directive							

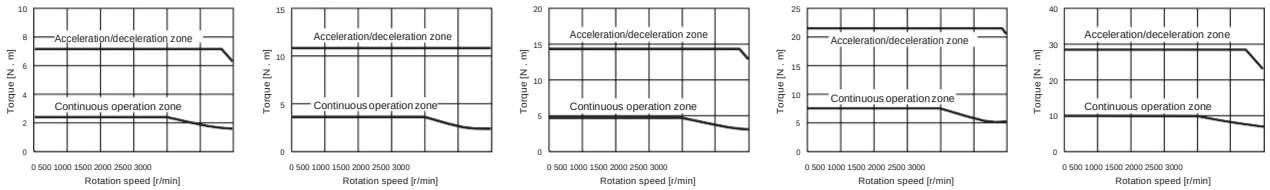
*1 The load inertia ratio to the inertia of servo motor. If the moment of load inertia ratio value exceeds the list value, please contact us.
*2 If the motor is used in the environment rated to IP67 protection degree, use the wiring connector suitable for the protection degree.

Brake specifications (motor equipped with a brake)

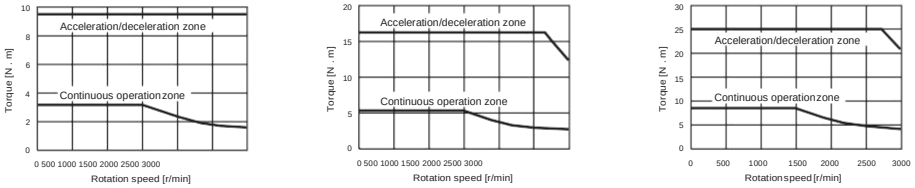
Motor type	GYG501C5 □2-B	GYG751C5 □2-B	GYG102C5 □2-B	GYG152C5 □2-B	GYG202C5 □2-B	GYG501B5 □2-B	GYG851B5 □2-B	GYG132B5 □2-B
Static friction torque [N · m]	17							
Rated DC voltage [V]	DC24±10%							
Attraction time [ms]	120							
Release time [ms]	30							
Power consumption [W]	12 (at 20 °C)							

Torque characteristics diagrams (at 3-phase 200 [V] or single-phase 230 [V] source voltage)

GYG501C5- 2	GYG751C5- 2	GYG102C5- 2	GYG152C5- 2	GYG202C5- 2
0.5kW	**0.75kW**	**1.0kW**	**1.5kW**	**2.0kW**



GYG501B5- 2	GYG851B5- 2	GYG132B5- 2
0.5kW	0.85kW	1.3kW



These characteristics indicate typical values of each servomotor combined with the corresponding servo amplifier RYH series.
The rated torque indicates the value obtained when the servo amplifier is installed to the following aluminum heat sink.

- Model GYG501C, 751C, 102C : 300 ×300 ×12 [mm]
- Model GYG152C, 202C : 400 ×400 ×12 [mm]
- Model GYG501B, 851B : 300 ×300 ×12 [mm]
- Model GYG132B : 400 ×400 ×12 [mm]

Ultra-low Inertia GYS Motor [3000r/min]

■ Standard specifications

Motor type (-B) indicates the brake-incorporated type.	GYS500D5 -□□2 (-B)	GYS101D5 -□□2 (-B)	GYS201D5 -□□2 (-B)	GYS401D5 -□□2 (-B)	GYS751D5 -□□2 (-B)	GYS102D5 -□□2 (-B)	GYS152D5 -□□2 (-B)	GYS202D5 -□□2 (-B)
Rated output [kW]	0.05	0.1	0.2	0.4	0.75	1.0	1.5	2.0
Rated torque [N · m]	0.159	0.318	0.637	1.27	2.39	3.18	4.78	6.37
Rated speed [r/min]	3000							
Max. speed [r/min]	6000 *1					5000		
Max. torque [N · m]	0.478	0.955	1.91	3.82	7.17	9.55	14.3	19.1
Inertia [kg · m^2]	0.0192×10^{-4}	0.0371×10^{-4}	0.135×10^{-4}	0.246×10^{-4}	0.853×10^{-4}	1.73×10^{-4}	2.37×10^{-4}	3.01×10^{-4}
( ) indicates brake-incorporated type.	(0.0223×10^{-4})	(0.0402×10^{-4})	(0.159×10^{-4})	(0.270×10^{-4})	(0.949×10^{-4})	(2.03×10^{-4})	(2.67×10^{-4})	(3.31×10^{-4})
Rated current [A]	0.85	0.85	1.5	2.7	4.8	7.1	9.6	12.6
Max. current [A]	2.55	2.55	4.5	8.1	14.4	21.3	28.8	37.8
Winding insulation class	Class B					Class F		
Degree of enclosure protection	Totally enclosed, self-cooled (IP 67. excluding the shaft-through and connectors)					Totally enclosed, self-cooled (IP 67. excluding the shaft-through)*2		
Terminals (motor)	Cable 0.3m (with connector)					Cannon connector		
Terminals (encoder)	Cable 0.3m (with connector)					Cannon connector		
Overheat protection	Not provided (The servo amplifier detects temperature.)							
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)							
Encoder	18-bit serial encoder (absolute/incremental), 20-bit serial encoder (incremental)							
Vibration level	V5 or below					Up to rated rotation speed: V10 or below Over rated rotation speed and up to 5000r/min: V15 or below		
Installation place, altitude and environment	For indoor use (free from direct sunlight), 1000m or below, locations without corrosive and flamable gases, oil mist and dust							
Ambient temperature, humidity	-10 to +40°C, within 90% RH (without condensation)							
Vibration resistance [m/s^2]	49					24.5		
Mass [kg]	0.45	0.55	1.2	1.8	3.4	4.4	5.2	6.3
( ) indicates brake-incorporated type.	(0.62)	(0.72)	(1.7)	(2.3)	(4.2)	(5.9)	(6.8)	(7.9)
Compliance with standards	UL/cUL (UL1004), CE marking (EN60034-1, EN60034-5), RoHS directive							

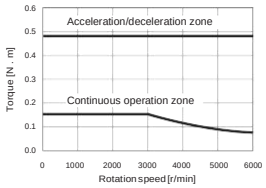
*1 The maximum rotation speed is 5000r/min when using the motor in combination with Fuji's gear head.
*2 If the motor is used in the environment rated to IP67 protection degree, use the wiring connector suitable for the protection degree.

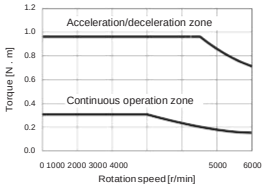
■ Brake specifications (motor equipped with a brake)

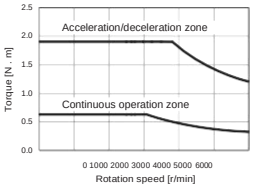
Motor type	GYS500D5 -□□2-B	GYS101D5 -□□2-B	GYS201D5 -□□2-B	GYS401D5 -□□2-B	GYS751D5 -□□2-B	GYS102D5 -□□2-B	GYS152D5 -□□2-B	GYS202D5 -□□2-B
Static friction torque [N · m]	0.34		1.27		2.45	6.86		
Rated DC voltage [V]	DC24±10%							
Attraction time [ms]	35		40		60	100		
Release time [ms]	10		20		25	40		
Power consumption [W]	6.1 (at 20 °C)		7.3 (at 20 °C)		8.5 (at 20 °C)	17.7 (at 20 °C)		

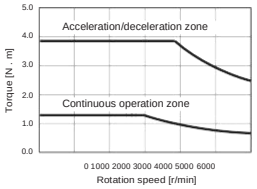
■ Torque characteristics diagrams (at 3-phase 200 [V] or single-phase 230 [V] source voltage)

GYS500D5-□□2	GYS101D5-□□2	GYS201D5-□□2	GYS401D5-□□2
0.05kW	0.1kW	0.2kW	0.4kW

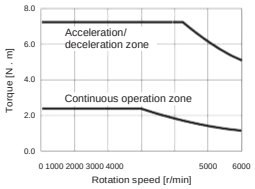


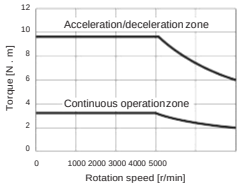


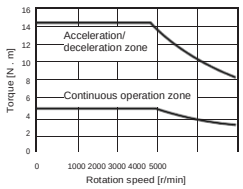


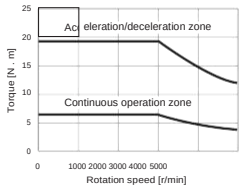


GYS751D5-□□2	GYS102D5-□□2	GYS152D5-□□2	GYS202D5-□□2
0.75kW	1.0kW	1.5kW	2.0kW









These characteristics indicate typical values of each servomotor combined with the corresponding servo amplifier RYH series.
The rated torque indicates the value obtained when the servo amplifier is installed to the following aluminum heat sink.

- Model GYS500D, 101D : 200×200×6 [mm]
- Model GYS201D, 401D : 250×250×6 [mm]
- Model GYS751D : 300×300×6 [mm]
- Model GYS102D, 152D, 202D : 350×350×8 [mm]

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