

TSUBAKI Small-Size Gear Motors IoT Series



What you can do with a gear motor integrated into a single unit

You may think that there is no issue with just retrofitting sensors, but there are many advantages to integrating sensors and gear motors into a single unit.

When you retrofit a gear motor with sensors









- You must wire one sensor at a time and secure a power supply for the sensors.
- You also need a peripheral device to control the motor with the output data.
- If you want to trigger an alarm when a setting is exceeded, you will need additional components.
- Configuration methods differ depending on the manufacturer of the components used.
- It is difficult to configure settings that take into account the efficiency of the motor and gears.

Example use

Conveyor belt

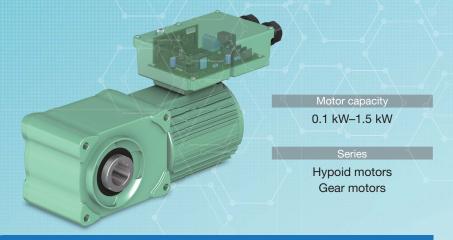
When used for drive units that convey processed parts or food containers



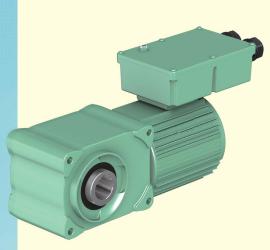
Key points

- Power monitoring enables highly accurate load monitoring.
- ☐ Compatible with inverter drives to enable stable detection accuracy at any speed.
- ☐ Lower limit detection enables detection of chain breakage.
- ☐ Abnormalities can be detected quickly, and alarms can be triggered.
- □ In the event of an abnormality, various data are automatically saved on the circuit board, enabling an easy analysis of the causes.
- ☐ The communication function allows the motor to be connected to various devices.
- ☐ Parameters can be easily changed.

and sensors



If you use an IoT Series Small-Size Gear Motor



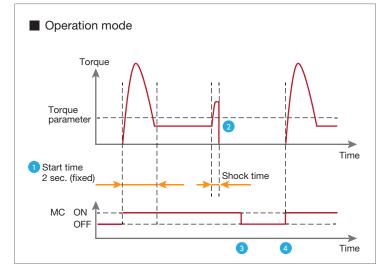
Because the power, temperature, and vibration sensors are built-in...

- The sensors are contained in an integrated unit, eliminating the need to wire sensors individually.
- The circuit board runs on a 24 V DC power supply, which enables communication even after the motor has stopped.
- Motor capacity and reduction ratios are input to the circuit board, which enables display and configuration with actual torque.
- Threshold values that take efficiency into account can be easily set
- Even more accurate torque calculations are possible with temperature sensor compensation.
- The relay output function allows an alarm to be triggered when a parameter is exceeded.
- Dedicated software allows parameters to be changed as needed.

Operation instructions

Up to four different settings can be configured in advance. Setting 1*, the factory setting, sets the rated value for upper limit detection at 100%, while Setting 2 sets it at 120%, Setting 3 sets it at 80%, and Setting 4 sets it at 150%.

*Setting 1 is the default setting when shipped. To change to Settings 2 to 4, use the DIP switches in the terminal box. Temperature and vibration sensors are shipped in the OFF position.



1 Start time

Set to prevent the relay from operating due to the motor's inrush current. During this time, overload detection cannot be carried out.

Overload trip

The relay will trip when each parameter is exceeded for longer than the shock time.

3 Eliminating cause of overload trip

When eliminating the cause of the trip, be sure to turn off the power. The motor may restart due to a momentary power outage.

4 Recovery from overload

Turn the power back on (turn on MC). The gear motor restarts.

By connecting the motor to a communication device, you can monitor operating conditions and record data.

Note: Display screen is subject to change with version upgrades

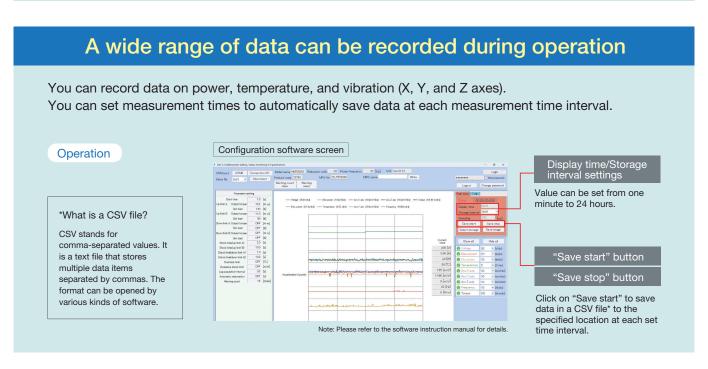
IoT Series Small-Size Gear Motors are equipped with a communications function. You can use the PC software to display waveforms, record operating data, and perform other tasks.



Note: We offer an RS-485 cable as an optional accessory (p.6). If you need a USB-RS-485 converter, please purchase an off-the-shelf product.

PC software can be downloaded from the Tsubaki website. https://tt-net.tsubakimoto.co.jp/tecs/pdct/gen/pdct_gen_1ggm.asp

Display waveforms in real-time Configuration software screen Sampling time The specifications of the The frequency of data connected gear motor are updates can be set here. displayed here. Parameter setting buttons "Save start" button Currently set parameters are Start waveform save displayed here. operation. Waveform display "Show all/Hide all" buttons Current values are displayed Show or hide items and set as waveforms. calibrations. Note: Please refer to the software instruction manual for details



You can set various parameters that are best suited to the equipment

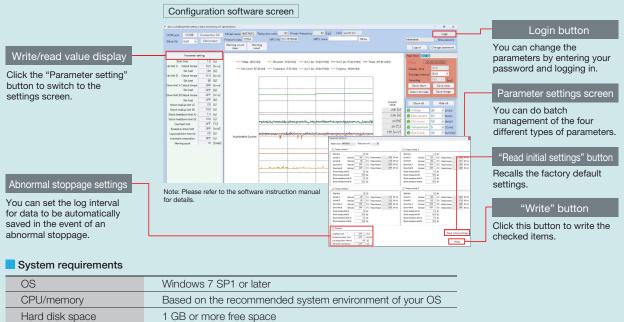
By entering your password and logging in, you can configure a total of six different settings for power, temperature, and vibration.

Setting parameters

Up to four different settings can be configured, and the parameters can be changed just by flipping the DIP switches in the terminal box. Please refer to the software instruction manual for the possible setting ranges.



Note: Only one setting is available for temperature and vibration.



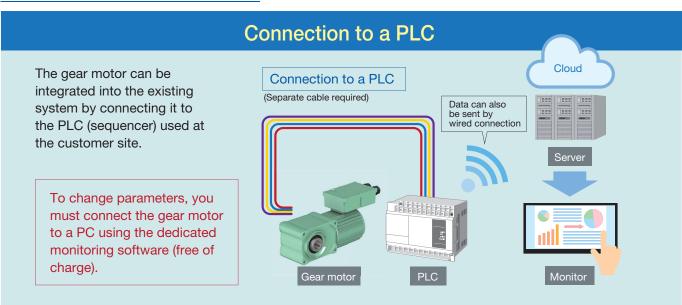
Example of Remote Monitoring

2 GB or more

.NET Framework 4.5.2 or later .NET Framework can be downloaded from this site: https://dotnet.microsoft.com/en-us/download/dotnet-framework

Memory

Required software



Features of IoT Series Small-Size Gear Motors

IoT Series Small-Size Gear Motors can monitor power, temperature, and vibration, making it possible to detect abnormalities under various conditions.

IoT Series Small-Size Gear Motors monitor power, temperature, and vibration, and they generate a signal if any abnormalities are detected.

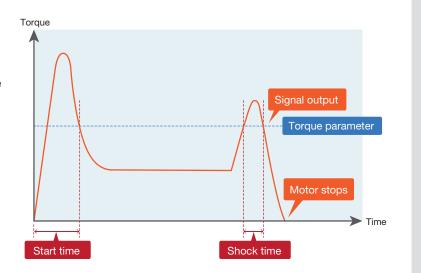
The dedicated PC software can be used to change operational parameters and to monitor and record data, while the communication function enables connections to a variety of devices.

Stoppage patterns

Stoppage due to momentary load

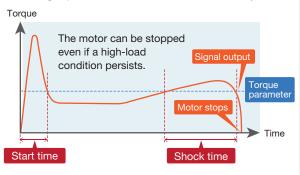
You can prevent equipment damage due to abnormal load by setting a shorter shock time.

The sensor can quickly detect a sudden increase in load, and the motor can be stopped using the output signal.



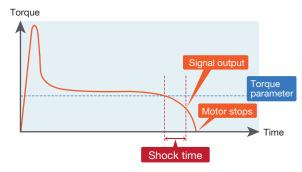
Stoppage due to long-term load

By lengthening the shock time and monitoring both load and temperature, this can be used as a high-precision thermal overload relay.



Stoppage due to lower limit detection

Detects when the load has lightened due to chain breakage or other cause and outputs a signal.



Operational status can be monitored with LEDs

Op	LED	
Power off		×
	0	
Signal output (red)	Upper power limit A	
	Upper power limit B	☆ (2)
	Lower power limit A	☆ (3)
	Over-shock	
	Overheat	☆ (6)

The LEDs can be checked from the lid of the terminal box, and the number of blinks during an error indicates the cause of the stoppage.

○: Light on X: Light off
☆(): Blinking
Number of blinks in parentheses

The blinking cycle is as follows during protective shutdown.

Blinking → Off (1s) → Blinking → Off (1s) → Blinking...

Communication specifications

Protocol	Modbus-RTU
Transmission line connection	RS-485
Communication speed	9600 bps
Start bit length	1 bit
Data bit length	8 bits
Stop bit length	1 bit
Parity bit	Even
Endianness	LSB
Slave address	1-16 (0x01-0x10)

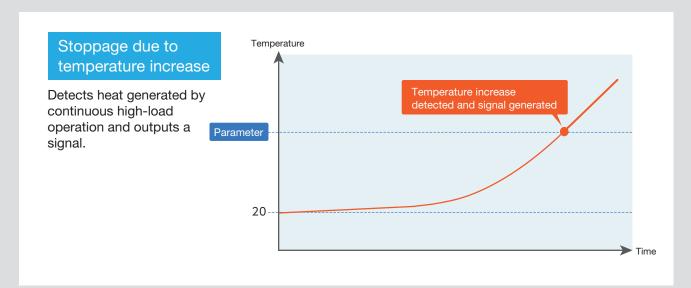
Equipped with a signal output function

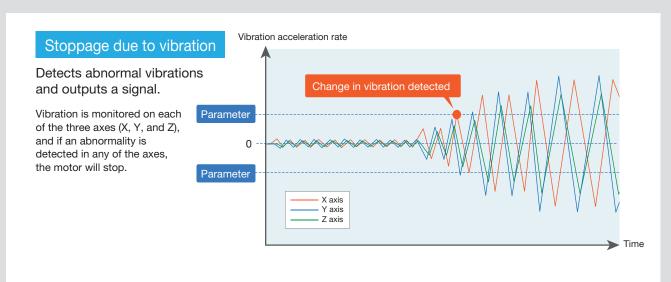
A signal is output when a parameter is exceeded, and an alarm can be triggered.

Contact specifications

Transistor output (24 V DC)

Please purchase the separately sold cable. Model no. Cable length M-S05 5 m 5000 Gear motor side Note: You will need a separate converter to connect the gear motor to a PC.





Features of IoT Series Small-Size Gear Motors

Automatic recording of abnormalities

Automatic data recording function when a signal is output

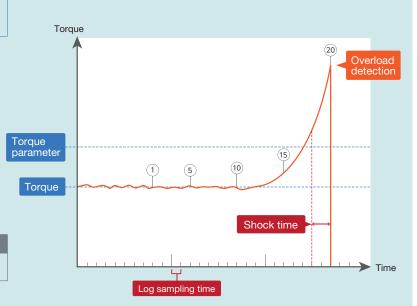
Various data before a signal is output is recorded three times in the gear motor body.

When a parameter is exceeded, 20 pieces of data are automatically recorded three times at set intervals going back from the time of signal output to determine what kind of load, temperature, or vibration caused the stoppage.

Example: If the interval is set at 0.5s

→0.5×20=10s

Various data from 10s before the signal output is recorded, and this data can be retrieved in CSV file format by connecting the motor to a PC.



Note: Data from the fourth timepoint onward will be overwritten starting with the oldest data.

Batch monitoring of multiple units

Up to 16 units can be connected together

When gear motors are connected, up to 16 units can be monitored with a single software application.

RS-485 communication enables batch monitoring of up to 16 units.

Please refer to p.6 for communications specifications.

Note: For long cables, contact a Tsubaki representative.

Monitors the operational status of 16 units















CE compliant

Products exported to Europe must bear CE marking to show that they satisfy the safety requirements of applicable EC directives.



Relevant directives and regulations

Directive Regulations Low Voltage Directive 2014/35/EU

EN 60034-1

(regulations for rotating electrical machines)

The IoT Series is also available with a self-shutoff function.

Item	loT Series	IoT Series (with self-shutoff)	
Detected items	Power, current, voltage, torque, acceleration (/Y/Z axes), temperature (inside terminal box)	
Inverter drive	Available	Not available	
Self-shutoff	No (Can be stopped using the relay)	Yes (Automatically stops when a parameter is exceeded)	
Communication	Modbus RTU RS-485; up to 16 units can be monitored		

Supported range of each series

IoT Series Small-Size Gear Motor

	Series	Capacity	Reduction ratio
	Lhunaid matar	0.1/0.2/0.4/0.75 kW	1/10–1/480
Hypoid motor	1.5 kW	1/10–1/200	
	Gear motor	0.1/0.2/0.4/0.75/1.5 kW	1/5-1/200

Note: For specific reduction ratios, please refer to the Tsubaki Gear Motors 40 W-5.5 kW catalog.

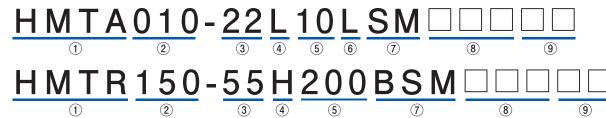
IoT Series Small-Size Gear Motor (with self-shutoff)

Series	Capacity	Reduction ratio
Hypoid motor (mini)	40/60/90 W, 0.1/0.2/0.4 kW	1/40–1/1200
Gear motor	0.1/0.2/0.4 kW	1/5-1/200

Standard specifications

		IoT Series Small-Size Gear Motor	IoT Series Small-Size Gear Motor (with self-shutoff)		
	Output	Three-phase: 0.1/0.2/0.4/0.75/1.5 kW	Three-phase: 40/60/90 W; 0.1/0.2/0.4 kW		
	Output	Non-brake type, brake type	Non-brake type		
	Power supply	0.1-1.5 kW, 200/200/220 V, 50/60/60 Hz	40 W-0.4 kW, 200/200/220 V, 50/60/60 Hz		
	Number of poles		4		
Motor	Protection	0.1 kW: Totally enclosed type (IP44) 0.2-1.5 kW: Totally enclosed external fan type (IP44)	40–90 W: Totally enclosed type (IP30); 0.1 kW: Totally enclosed type (IP44) 0.2–0.4 kW: Totally enclosed external fan type (IP44)		
	Cooling	0.1 kW: Self-cooled type (IC410); 0.2–1.5 kW: Self-managed type (IC411)	40 W-0.1 kW: Self-cooled type (IC410); 0.2-0.4 kW: Self-managed type (IC411)		
	Startup		-		
	Rating	S1 (continuous)			
	Insulation	0.1–0.4 kW–120(E), 0.75 kW–155(F), 1.5 kW–130(B)	40 W-0.4 kW-120(E)		
	Reduction ratio	See "Supported range of each series" above.			
Reducer	Lubrication	Grease			
11000001	Start end keyway	New JIS key (JIS B1301-1976): Output shaft key attached (Ordinary-class keyway, except hollow shaft type)			
	Output shaft end	Tapped (except hollow shaft type)			
	Installation place	Indoor not exposed to dust or water			
	Temperature	0°C−40°C			
	Humidity	85% or less (no condensation)			
Ambient conditions	Altitude	1,000 m or less			
00110110110	Atmosphere	Free from corrosive gases, explosive gases, and steam			
	Mounting direction	No limitations on mounting angles: horizontal, vertical, or inclined			
	Vibration	4.9 m/s ² {0.5 G} or less (20–50 Hz)			
Paint color		Munsell 2.5G 6/3			

Hypoid motor model numbering



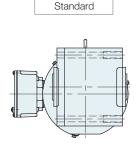
0	HMTA	Standard motor 0.1-0.4 kW
Product series name	HMTR	IE3 motor
Tarre		0.75–1.5 kW
② Motor capacity	010	Three-phase 0.1 kW
(example)	150	Three-phase 1.5 kW
③ Frame number	22	Frame number 22
(example)	55	Frame number 55
	L	Foot mount
4 Mounting type	U	Face mount
	Н	Hollow shaft
(5) Reduction ratio	200	1/200
® Reduction ratio	10	1/10
	L	Output shaft located to the left as viewed from the motor side
	Т	Output shaft located on both sides
6 Shaft	R	Output shaft located to the right as viewed from the motor side
arrangement	S	Output shaft located on one side
		(face side: for face mount type only)
	No code	Hollow shaft type
	No code	Without B or BE
	В	Brake type
	BE	Encoder type with brake
(7) Specification	K	POWER-LOCK type (for hollow shaft type with
Specification code		standard shaft hole diameter only)
	SM	IoT Series
	BSM	IoT Series with brake
	SC	IoT Series with self-shutoff

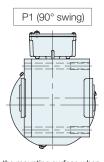
	Z	Inverter motor type	
	_	(0.1–0.4 kW only)	
Ontion code A	V	400 V class	
(8) Option code A (order of priority)	N		
(Gradi of priority)		200 V class Europe	
	VN	400 V class Europe	
	G1	No.1 grease	
	P1	Terminal box position 90° swing	
	P2	Terminal box position 180° swing	
	P3	Terminal box position 270° swing	
	Y1	AC external operation	
	Y2	DC external wiring	
	Y3	AC external operation + DC external wiring	
	C0	Paint color: Light gray (Munsell N7.5)	
Option code B	C1	Paint color: Light silver metallic	
(former supplementary	C2	Paint color: Ivory white	
code)	C3	Paint color: Dark silver metallic	
	S1	Hollow shaft hole diameter ϕ 20	
	S2	Hollow shaft hole diameter ϕ 25	
	S3	Hollow shaft hole diameter ϕ 30	
	S4	Hollow shaft hole diameter ϕ 35	
	S5	Hollow shaft hole diameter ϕ 40	
	S6	Hollow shaft hole diameter ϕ 45	
	S7	Hollow shaft hole diameter ϕ 50	

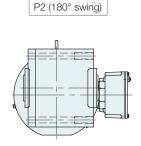
Note: Brake wiring cannot be changed after purchase, so please indicate the wiring configuration when you place your order. Please refer to pp.11–12 for wiring.

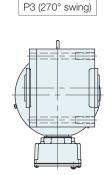
Terminal box positions

0.1-1.5 kW







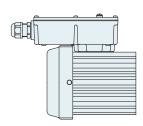


Note: On the 0.75 kW and 1.5 kW foot mount types, the motor protrudes from the mounting surface when the terminal box is at a position other than the standard position.

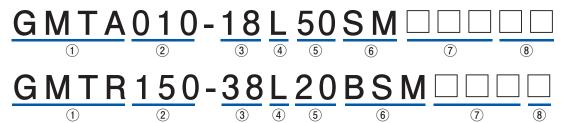
Terminal box outlet direction

Unless otherwise indicated, the terminal box outlet direction is as shown on the right.

Please contact a Tsubaki representative if you would like to change the outlet direction.



Gear motor model numbering



0	GMTA	Standard motor 0.1–0.4 kW	
① Product series	GMTR	IE3 motor	
name		0.75–1.5 kW	
② Motor capacity	010	Three-phase 0.1 kW	
(example)	150	Three-phase 1.5 kW	
③ Frame number (example)	38	Frame number 38	
	L	Foot mount	
4 Mounting type	U	Face mount	
	F	Flange mount	
⑤ Reduction ratio	20	1/20	
	No code	Without B or BE	
	В	Brake type	
Specification	BE	Encoder type with brake	
code	SM	IoT Series	
	BSM	IoT Series with brake	
	SC	IoT Series with self-shutoff	

	Z	Inverter motor type	
		(0.1–0.4 kW only)	
7 Option code A	V	400 V class	
(order of priority)	Ν	200 V class Europe	
	VN	400 V class Europe	
	G1	No.1 grease	
	P1	Terminal box position 90° swing (1.5 kW only)	
	P2	Terminal box position 180° swing (1.5 kW only)	
	P3	Terminal box position 270° swing (1.5 kW only)	
	P5	Terminal box position 120° swing (0.1–0.75 kW only)	
(8) Option code B	P6	Terminal box position 240° swing (0.1 –0.75 kW only)	
(former	Y1	AC external operation	
supplementary	Y2	DC external wiring	
code)	Y3	AC external operation + DC external wiring	
	C0	Paint color: Light gray (Munsell N7.5)	
	C1	Paint color: Light silver metallic	
	C2	Paint color: Ivory white	
	C3	Paint color: Dark silver metallic	

Note: Brake wiring cannot be changed after purchase, so please indicate the wiring configuration when you place your order. Please refer to pp.11–12 for wiring.

Terminal box positions

0.1-0.75 kW



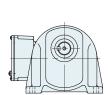
Standard



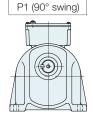




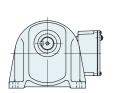
1.5 kW



Standard



P2 (180° swing)



P3 (270° swing)



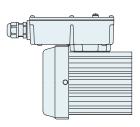
Note 1: The above diagrams are typical examples. The position of the terminal box will vary depending on the model number. Please confirm dimensions. Note 2: On the 0.75 kW, 1/5–1/25 foot mount types, the motor protrudes from the mounting surface in the P5 position.

Note 3: The P6 position may not be possible for the 0.1 kW and 0.2 kW foot mount types.

Terminal box outlet direction

Unless otherwise indicated, the terminal box outlet direction is as shown on the right.

Please contact a Tsubaki representative if you would like to change the outlet direction.



Brake-Equipped Motor and Brake-Equipped Inverter Motor Connection

Brake wiring cannot be changed after you purchase an IoT Series Small-Size Gear Motor. You must provide instructions on brake wiring when you place your order. Since response time will vary depending on the wiring configuration, please select the configuration for your intended use based on the figures below.

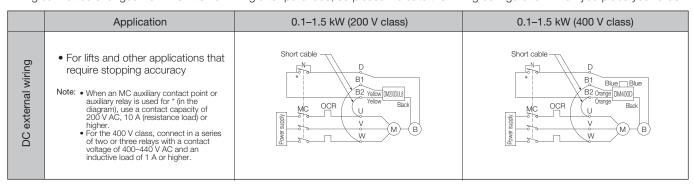
1. Wiring for a brake-equipped standard motor

Unless otherwise specified, standard motor brakes are shipped with AC internal wiring. If you want to change to AC external operation, please remove the short cable. If you would like AC external operation at the time of shipment, add option code "Y1" to the model number.

	Application	0.1-1.5 kW (200 V class)	0.1-1.5 kW (400 V class)
AC internal wiring	Normal use Standard specifications	Short cable B1 Blue B2 Yellow Black Yellow Black V W W Black W W W W Black W W W W Black W W W W W W W W W W W W W W W W W W W	Short cable B1 Blue Blue B20arge DM000 Black Orange Block W M B
AC external operation	General inverter drive When operating the brake separately Note: For the auxiliary relay (MCa), use one with a contact capacity of 200 V AC, 7 A (resistance load) or higher. For the 400 V class, use an auxiliary relay with a contact voltage of 400–440 V AC and an inductive load of 1 A or higher.	Supply voltage to the brake at the point marked with 1 should be 200–254 V AC for 0.1 kW and 0.2 kW, 200–220 V AC for 0.4 kW and 0.75 kW, and 200–230 V AC for 1.5 kW.	380-460 V AC

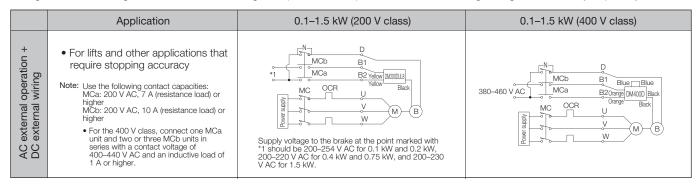
DC external wiring (Option code: Y2)

Wiring cannot be changed from AC internal wiring after purchase, so please indicate the wiring configuration when you place your order.



AC external operation + DC external wiring (Option code: Y3)

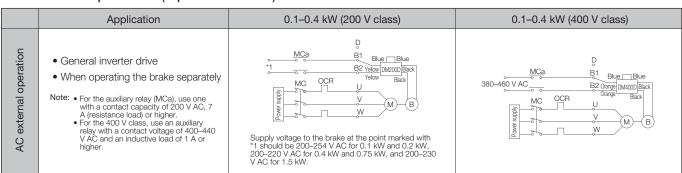
Wiring cannot be changed from AC internal wiring after purchase, so please indicate the wiring configuration when you place your order.



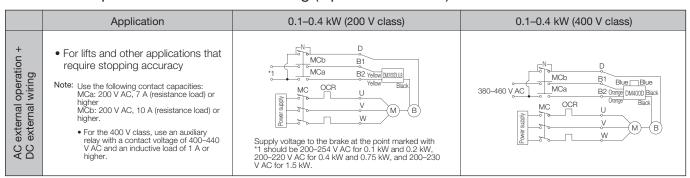
2. Wiring for a brake-equipped inverter motor

Unless otherwise specified, inverter motor brakes are shipped with AC external operation.

AC external operation (Option code: Z)



AC external operation + DC external wiring (Option code: ZY3)



M: Motor B: Brake MC: Electromagnetic contactor MCa/MCb: Auxiliary relay OCR: Overcurrent relay DM200D, DM200DUL8, DM400D: DC module -N-: Protective element (varistor)

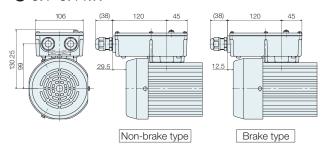
Note 1: Brake voltage is 90 V DC (180 V DC) (when 200 V AC [400 V AC] is input to DC module).

- 2: For DC external wiring, connect a varistor between the terminals. Select a 470 V (820 V) varistor voltage.
- 3: For DC external wiring, connect terminals D and B2 to create a contact.
- 4: Brake power must be drawn from the inverter's primary power supply, and brake operation must be synchronized with motor on/off.
- 5: Please refer to the inverter instruction manual as the inverter must be interlocked to engage and disengage the MCa.

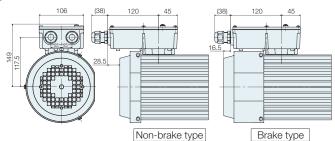
Note: Values in parentheses are for the 400 V class motor.

Terminal box dimensions (All other dimensions are the standard except for the terminal box)

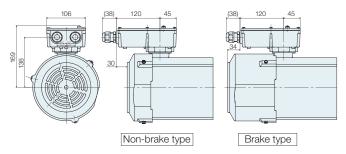
● 0.1-0.4 kW



0.75 kW

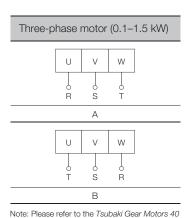


● 1.5 kW



Connection and rotation direction

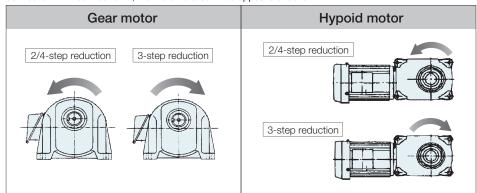
1. Wiring



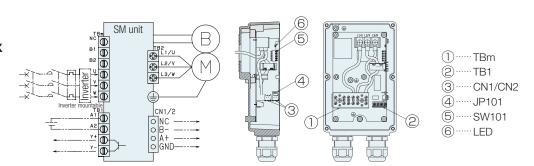
Note: Please refer to the Tsubaki Gear Motors 40 W-5.5 kW catalog for instructions.

2. Direction of rotation

The arrows in the following drawings indicate the direction of rotation as viewed from the output shaft in connection A. In connection B, the motor rotates in the opposite direction.



Wiring diagram and terminal box schematic



Safety Guide and Warranty



WARNING

Death or serious injury may result from product misuse due to not following the instructions.

- When carrying out an operation test or making a periodic inspection, make sure to verify that it functions properly as a protection device.
- Follow the instruction manual when carrying out megger testing because most electrical devices have certain requirements for megger testing.
- Check the operation of the device periodically so that it can be sure to function properly when overloaded occurs.
- Comply with the 2-1-1 General Standards of the Japanese Ordinance on Industrial Safety and Health or the rules and regulations concerning occupational safety and health in your region/country.
- When performing maintenance or inspections:
 - 1) Wear proper work clothes and protective equipment (safety devices, gloves, shoes, etc.). To avoid an accident, make sure to perform maintenance and inspections in an appropriate environment.
 - 2) Make sure the power is switched off, and the machine has stopped completely before carrying out maintenance and inspections. Take the necessary measures to ensure the power is not turned back on.
 - 3) Follow the instruction manual.
 - 4) Wire according to the technical standards of electrical installation and company regulations. Take note of the cautions in this manual, which explain installation direction, clearance and environmental conditions. Make sure to ground the device to prevent electrical shock and to improve noise resistance.
- When using with lifting equipment, install a suitable protection device for safety purposes, otherwise an accident resulting in death, serious injury or damage to the equipment may occur due to a falling accident.



CAUTION

Minor or moderate injury, as well as damage to the product may result from product misuse due to not following the instructions.

- Consumable parts (tantalum electrolytic capacitors, relays, etc.) are built-in the products. Using the manual, periodically check the functions and operation of the device. If it is not functioning properly, contact the distributor for repair.
- Do not use the device in a corrosive gas environment. Sulphidizing gases (SO2, H2S) can especially corrode the copper and copper alloy used on PCBs and parts, and cause a malfunction.
- Read the instruction manual carefully, and use the product properly. In case the instruction manual is not available, request one from the distributor where you purchased the product, or our sales office with the product name and model number.
- Deliver this instruction manual to the final customer who uses the product.

Tsubakimoto Chain Co.: hereinafter referred to as "Seller"; Customer: hereinafter referred to as "Buyer"; Goods sold or supplied by Seller to Buyer: hereinafter referred to as "Goods"

1. Warranty period without charge

Effective 18 months from the date of shipment or 12 months from the first use of Goods, including the installation of the Goods to the first use of Goods, including the installation of the Goods to the Buyer's equipment or machine-whichever comes first.

2. Warranty coverage

Should any damage or problem with the Goods arise within the warranty period, given that the Goods were operated and maintained according to the instructions provided in the manual the Seller will repair and replace at no charge once the Goods are returned to the Seller.

This warranty does not include the following:

- Any costs related to removal of Goods from the Buver's 1) equipment or machine to repair or replace parts.
- 2) Cost to transport Buyer's equipment or machines to the Buyer's repair shop.
- 3) Costs to reimburse any profit loss due to any repair or damage and consequential losses caused by the Buyer.

3. Warranty with charge

Seller will charge for any investigation and repair of Goods caused by:

- Improper installation by failing to follow the instruction manual.
- Insufficient maintenance or improper operation by the Buyer.
- Incorrect installation of the Goods to other equipment or machines.
- Any modifications or alterations of Goods by the Buyer 5)
- Any repair by engineers other than the Seller or those designated by the Seller.
- Operation in an environment not specified in the manual.
- Force Majeure or forces beyond the Seller's control such as natural disasters and injustices inflicted by a third party.
- Secondary damage or problems incurred by the Buyer's equipment 8)
- 9) Defective parts supplied or specified by the Buyer.
- Incorrect wiring or parameter settings by the Buyer 10)
- The end of life cycle of the Goods under normal usage. 11)
- Losses or damages not liable to the Seller.

4. Dispatch service

The service to dispatch a Seller's engineer to investigate, adjust or trial test the Seller's Goods is at the Buyer's expense.



CAUTION

The contents of this catalog are mainly to aid in product selection.

Read the instruction manual thoroughly before using the product in order to use it properly.

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