

Brushless Motor Troubleshooting: The motor doesn't run

(1) In order to ensure a safe use of the system, please refer to the operating manuals and operating instructions for each device such as "Safety Precautions" and "Safety Essentials". Please check the contents before use.

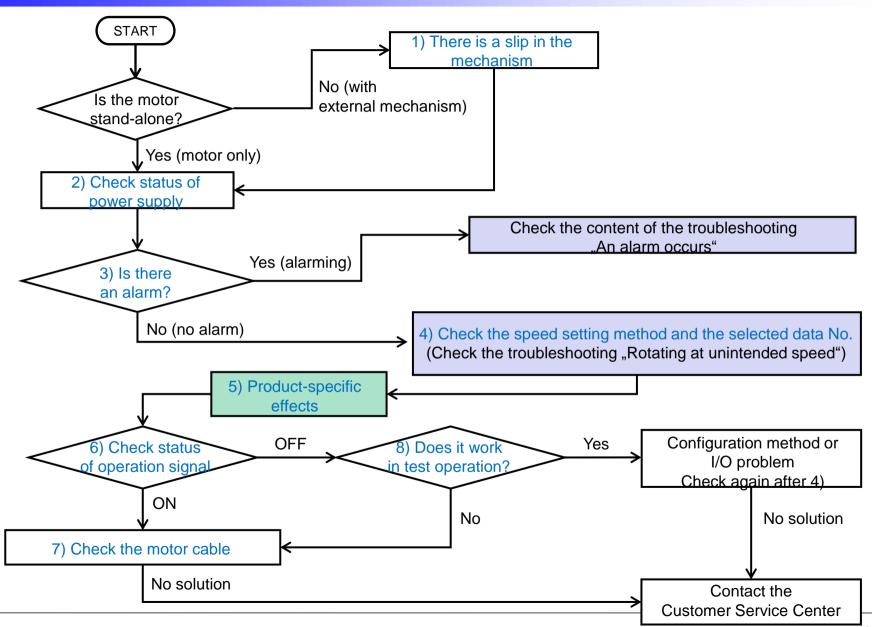
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(3) The information contained in this document is as of August 2021. The information in this document is subject to change without notice.

(4) This document describes the malfunction of the equipment and does not cover the individual operation, installation or wiring methods. For further information, other than the malfunction of the equipment, please refer to the operating manual of the product or contact the manufacturer for more information.

- 1) There is a slip in the mechanism.
- 2) The power is not turned on*.
- 3) An alarm is generated.
- 4) The setting method of operation data is not the intended content.
- 5) Product-specific effects*.
- 6) The input signal is not in the proper state*.
- 7) Abnormality in the wiring of the motor cable (broken wire, wrong insertion)*.
- 8) Does it operate by test operation or teaching remote operation?

What to do if the motor doesn't run



4

Oriental motor

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If the device does not work or stops, the motor itself may be normal, but the mechanism may be the cause of the failure.

First, please check the motor output shaft and see if the motor output shaft is rotating.



Please check the mechanism. It may be a problem in the mechanism, such as a loose fastening part or a missing key.

Visually check the condition of the motor output shaft

In case where it is difficult to distinguish or cannot be confirmed

If the motor is built into the equipment and cannot be checked, or if the gears of the motor being used have a high reduction ratio, or if the motor is not being used.

If the speed is extremely low and difficult to determine, use the monitor function to check the rotation speed of the motor shaft.

The monitoring method varies depending on the series (see next page).

Oriental motor

Oriental motor

How to monitor each series

		BMU BLE2		BLH		BLV
	DIVIU	DLEZ	Analogue	Digital	RS-485	DLV
Control Panel	●	•	-	-	-	-
MEXE02 Support Software	-	● (USB-mini-B)	-	● (USB-mini-B)	● (USB-mini-B)	● (special cable)
OPX-2A Data Setting Device	-	-	-	-	-	•
Via Network	-	-	-	-	•	•

For details of each checking method please refer to the operating manual of each series. Dedicated communication cable: CC05IF-USB.

Example: BLE2 Series (MEXE02 Status Monitor)

New1 BLE2 [AC] - Status monitor					×
Start Status Monitor					
Command speed (motor shaft)	0	[r/min]	Actual Speed(Motor)	0	[r/min]
Command speed (gearhead shaft)	0	[r/min]	Actual Speed(Gear)	0	[r/min]
Gear ratio	0,00		Operation Number	0	
Speed increasing ratio	0,00		Load Factor	0	[%]
Main circuit DC voltage	0	[M]	External analog setting devices	0,0	M
Elapsed time from BOOT	0	[ms]	Driver temperature	0,0	[°C]
Odometer	0.0	[kRev]	Tripmeter	0,0	[kRev]
				Cleartripmeter	
Present 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0	Past		7

1) There is a slip in the mechanism.

2) The power is not turned on*.

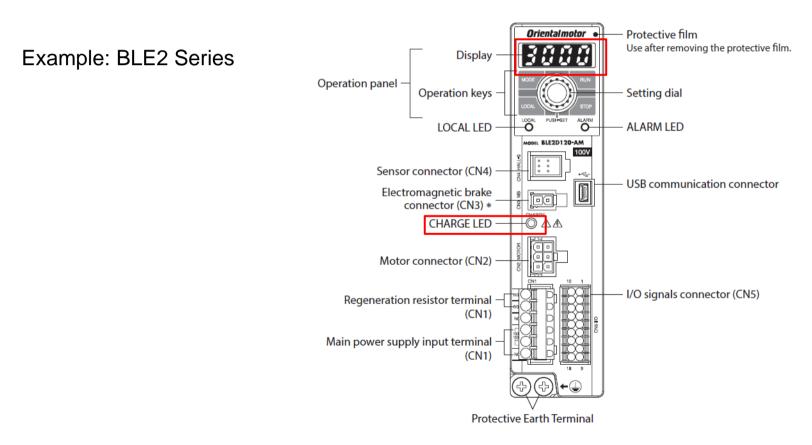
- 3) An alarm is generated.
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Oriental motor

If the motor does not run, check if the driver power is turned on.

You can check whether the power is supplied to the driver from the LED status of the driver or the operation panel.

(LED names and placement vary depending on the series. Please refer to the operating manual of each series for details.)



Oriental motor

Please check the following information.

- (1) Is the power connector disconnected?
- (2) Check that circuit breakers and other wiring devices are turned on and that there are no problems with the main power supply.
- (3) Is the position of the connected terminal correct (e.g., is the top and bottom not reversed?)?
- (4) Is the power cable inserted normally into the power connector, and is there any defect such as crimping?
- (5) Is the power cable disconnected? If it is extended, remove the extension to see if it improves the situation.

If the LED does not light up when all the above conditions are fulfilled:



Please contact our Customer Service Center.

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The driver is equipped with an alarm function to protect the driver from various troubles. If an alarm is present, the motor will not run.

Check for alarms in one of the following ways:

	BMU	BLE2		BLH		BLV
	DIVIU	DLEZ	Analogue	Digital	RS-485	DLV
Alarm Output	●	•	•	●	•	•
LED	-	-	•	•	•	•
Control Panel	•	•	-	-	-	-
MEXE02 Support Software	-	● (USB-mini-B)	-	● (USB-mini-B)	● (USB-mini-B)	● (special cable)
OPX-2A Data Setting Device	-	-	-	-	-	•
Via Network	-	-	-	-	•	•

If an alarm has occurred, check the details of the alarm that has occurred and remove the cause before clearing it.

For more information on each alarm, refer to the operating manual and troubleshooting "Alarm occurs".

Dedicated communication cable: CC05IF-USB.

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4) The setting method of the operation data is not the intended content

Oriental motor

If the selected data No. or speed setting method is different from the intended one, the motor may not move.

(e.g. speed was set digitally, but the parameter of the setting method was set to external analog).

If the motor does not run, please check the following two points.

- 1) The selected data No.
- 2) How to set the speed

How to set the rotation speed for each series (default value):

Data No.	BLE2	BMU BLH				BLV
Dala NU.	DLEZ	DIVIO	Analogue	Digital	RS-485	DLV
0	Digital	Digital	External	External	Digital	VR1
0	setting	setting	Analog	Analog	setting	VKI
1	Digital	Digital	VR1	VR1	Digital	External
I	setting	setting	VKI	VKI	setting	Analog
2~	Digital	Digital		Digital	Digital	Digital
۷~	setting	setting	-	setting	setting	setting

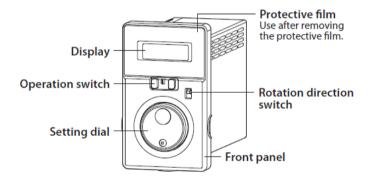
The setting method cannot be changed for the BMU Series and BLH Series (analog setting type). VR1: Internal setting unit

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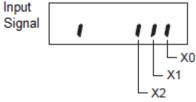
The BMU Series can be operated with only the slide switch (operation switch) on the front of the driver in the factory default setting, but it can also be operated with the slide switch on the rear of the driver.

You can use I/O by changing the parameters (refer to the instruction manual for how to change the parameters).

When operating with I/O, the slide switch must be in the RUN state (with the switch to the right). The motor is operated by turning on either the FWD input or REV input.



If it does not work by I/O control, please check the status of input signal and slide switch by I/O monitor.



Monitor mode \Rightarrow I/O monitor \Rightarrow Input monitor

Oriental motor

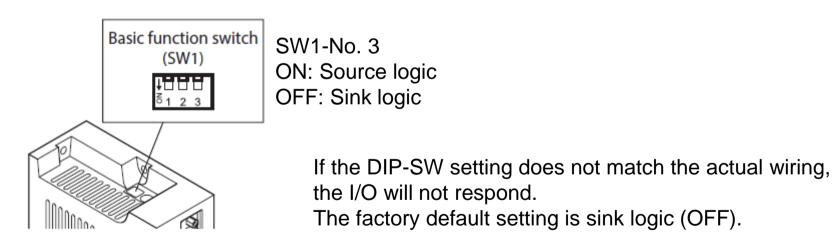
Oriental motor

The BLH Series I/Os are C-MOS (5V).

Also, please note that the BLH Series does not support source connection (input signal will not respond).

In the BLV Series, the following three wiring methods are supported for I/O wiring. Internal power supply External power supply - Sink connection External power supply - Source connection

When changing the connection method, it is also necessary to change the DIP-SW (SW1-No.3) (After the change, it is reflected by reconnecting the power supply).



Oriental motor

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8) Does it operate by test operation or teaching remote operation?

If the motor does not run, the state of the input signal may not be appropriate, such as the operation signal is not turned on.

First, check the status of each signal using the following methods (I/O test, I/O monitor).

	BMU	BLE2		BLH		BLV
	DIVIU	DLEZ	Analogue	Digital	RS-485	DLV
Control Panel	•	•	-	●	●	-
MEXE02 Support Software	-	● (USB-mini-B)	-	● (USB-mini-B)	● (USB-mini-B)	● (special cable)
OPX-2A Data Setting Device	-	-	-	-	-	•
Via Network	-	-	-	-	•	•

Dedicated communication cable: CC05IF-USB.

Also please check the following settings: Contact setting of operation input signal (reversing, non-reversing) Operation input method (2-wire method, 3-wire method) Allocation of I/O Inputs

Example: BLE2 Series (MEXE02)

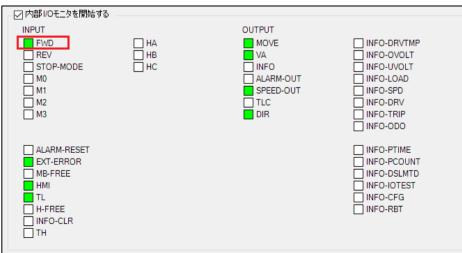
D-I/O Monitor

☑ D-I/Oモニタを開始する	
Direct I/O	
INPUT	OUTPUT
Di0:FWD	Do0:SPEED-OUT
Di1:REV	Do1:ALARM-OUT
Di2:STOP-MODE	
Di3:M0	
Di4:M1	
Di5:ALARM-RESET	
Di6:MB-FREE	
外部アナログ設定器	
入力電圧	2.1 [V]
速度指令	1777 [//win]
経境地中	1777 [r/min]

D-I/O refers to direct I/O. The ON/OFF status of I/O signals is displayed as follows:

Display	Direct I/O
ON (Green)	conductive state
OFF (White)	non- conductive state

Internal I/O Monitor



The internal I/O monitor can monitor the internal status of all I/O signals. You can also check signals that are not assigned to direct I/O.

Display	Internal signal condition
ON (Green)	active state
OFF (White)	inactive state

Oriental motor

Oriental motor

If the operation input signal is not turned ON, the following may occur*:

- (1) Wiring error (GND connection point is different, wrong connection point, etc.)
- (2) Cable disconnection, poor connection or forgotten connection
- (3) Wrong voltage of signal power supply
- (4) Driver damage

A particularly common problem is wiring errors. Wiring varies depending on the I/O output of the host master, connection method, etc.

An example of checking with an external power supply (sink/source) is explained on the next page.

Check the specifications of the host master and confirm the wiring (NPN / PNP / Sink / Source).

Also, when teaching, remote operation or I/O test is being executed, the operation input signal will be invalid, so please finish the operation before running it with an external signal.

*The explanation of the case where I/O is input via network is not shown here. If this does not work when running on a network, please contact the Customer Service Center.

6) The input signal is not in the proper state: Check wiring (external power supply – sink connection)



(1) Set the controller to a state in which no signal is output and measure the voltage at the points shown in the table below with a tester or the like.

(Measure the voltage between the target pin of the driver and GND of the controller.) Check the I/O GND of the controller in the instruction manual of the controller.)

	BMU (max. 120 W)	BMU (min. 200 W)	BLE2	BLV
+ Side	x0 (8 pin)	IN0 (5 pin)	IN0 (2 pin)	INO (1 pin)
- Side	0 V of the controller			

When the measurement result is $24 \text{ V} \Rightarrow \text{Go to } (2)$.

If the measurement result is other than $24V \Rightarrow$ Check the wiring to the voltage supply source (+24V).

Measurement should be performed on the driver side, not on the controller side.

Network-compatible products are not described here.

The BLH Series is driven by an internal power supply and is not described here.

For DC input products, the I/O GND of the controller and the I/O GND of the driver should be common.

6) The input signal is not in the proper state: Check wiring (external power supply – sink connection)



(2) Switch to the state in which the signal is output from the controller and measure the voltage at the points shown in the table below with a tester or the like. (Measre the same area as in (1)).

	BMU (max. 120 W)	BMU (min. 200 W)	BLE2	BLV
+ Side	x0 (8 pin)	IN0 (5 pin)	IN0 (2 pin)	INO (1 pin)
- Side	0 V of the controller			

If the measurement result is $0 \vee \Rightarrow$ Wiring is likely to be correct. Please contact the Customer Service Center.

If the measurement result is other than $0 V \Rightarrow$ Check the wiring between the driver target pin and the output terminal of the controller being used.

Check the output method of the controller (is it the PNP method?)

Is the GND of the power supply source and the I/O GND of the controller common?

Measurement should be performed on the driver side, not on the high-level master side. Network-compatible products are not described here.

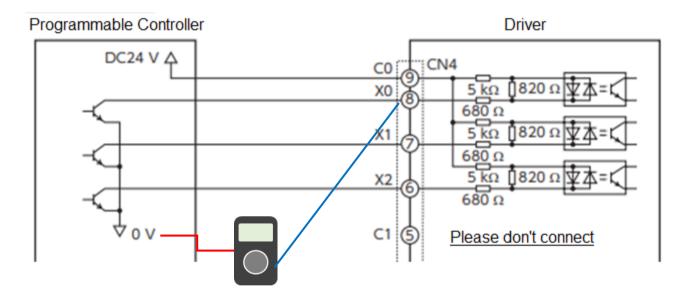
The BLH is driven by an internal power supply and is not described here.

For DC input products, the I/O GND of the host master and the I/O GND of the driver should be common.

6) The input signal is not in the proper state: Check wiring (external power supply – sink connection)



Measurement image:



6) The input signal is not in the proper state: **Oriental motor** Check wiring (external power supply – source connection)

(1) Set the controller to a state in which no signals are output and measure the voltage at the points shown in the figure below with a tester or the like.

(Measure the voltage between the target pin of the driver and the I/O power supply of the controller. Check the I/O power supply of the controller in the instruction manual of the controller.)

	BMU (max. 120 W)	BMU (min. 200 W)	BLE2	BLV
+ Side	24 V of the controller			
- Side	x0 (8 pin)	IN0 (5 pin)	IN0 (2 pin)	INO (1 pin)

When the measurement result is 24 V \Rightarrow Go to (2).

If the measurement result is other than 24 V \Rightarrow Check the wiring between the driver target pin and the controller I/O GND.

Measurement should be performed on the driver side, not on the controller side.

Network-compatible products are not described here.

The BLH Series is driven by an internal power supply and is not described here.

For DC input products, the I/O GND of the controller and the I/O GND of the driver should be common.

6) The input signal is not in the proper state: **Oriental motor** Check wiring (external power supply – source connection)

(2) Switch to the state in which the signal is output from the controller and measure the voltage at the points shown in the figure below with a tester or the like.

(Measure the same area as in (1))

	BMU (max. 120 W)	BMU (min. 200 W)	BLE2	BLV
+ Side	24 V of the controller			
- Side	x0 (8 pin)	IN0 (5 pin)	IN0 (2 pin)	INO (1 pin)

If the measurement result is $0 V \Rightarrow$ Wiring is likely to be correct. Please contact the Customer Service Center.

If the measurement result is other than $0 \vee \Rightarrow$ Check the wiring between the driver target pin and the output terminal of the controller being used.

Check the output method of the controller (isn't the NPN method used?)

Measurement should be performed on the driver side, not on the controller side. Network-compatible products are not described here.

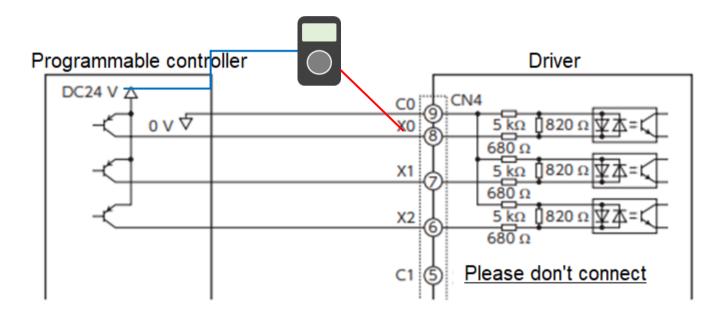
The BLH Series is driven by an internal power supply and is not described here.

For DC input products, the I/O GND of the controller and the I/O GND of the driver should be common.

6) The input signal is not in the proper state: Check wiring (external power supply – source connection)

Oriental motor

Measurement image:



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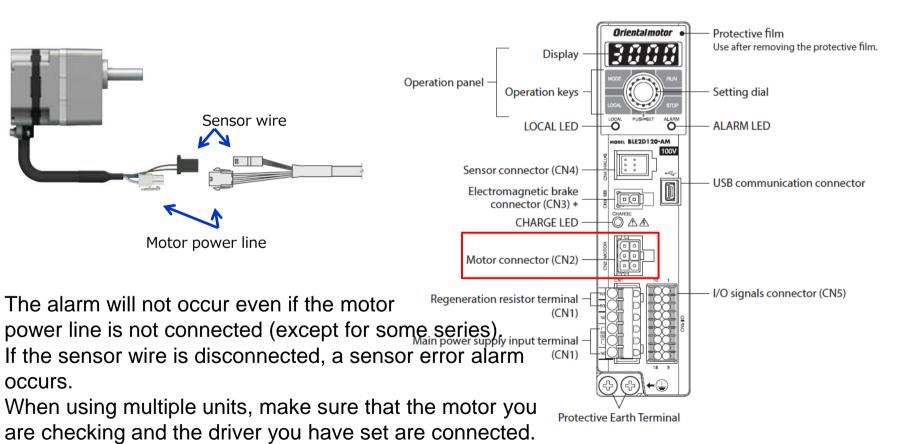
7) Abnormality in the wiring of the motor cable (broken wire, wrong insertion)

Oriental motor

If the motor does not run, make sure you have not forgotten to connect the motor power wire.

Example: For BLM motors (cable type)

occurs.



Example: BLE2 Series

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8) Does it operate by test operation or teaching mode operation?

Oriental motor

If the motor does not run with an external input signal, test operation from the driver's operation panel or check if it works by teaching remote operation from the support software "MEXE02".

In doing so, all input and output signal connectors must be disconnected, and the driver must be equipped with a power supply, motor, and if it is MEXE02, please check it with PC and driver connected by communication cable.

Note that the motor is expected to operate, and the device may move suddenly. Make sure that there is no danger of malfunction, damage, or injury before doing so.

	BMU	BLE2		BLV		
	BIVIO	DLEZ	Analogue	Digital	RS-485	DLV
Control Panel	•	•	-	•	•	-
MEXE02 Support Software	-	● (USB-mini-B)	-	● (USB-mini-B)	● (USB-mini-B)	● (special cable)
OPX-2A Data Setting Device	-	-	-	-	-	•
Via Network	-	-	-	-	•	•

Dedicated communication cable: CC05IF-USB.

8) Does it operate by test operation or teaching mode operation?

Example: BLE2 Series

File Edit View Communication T	Tool Support Help								
i 🗎 🗐 🗐	COM1 : Com	munications oduct	Port (COI	VI1)		÷ 🗣 🖁)FF 🕇	: → :	÷.
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⊂ Currently open window	Teaching, remote operation	n							
(m1) Teaching, remote operation	Driver Status								
🝠 (p1) Operation data	Actual Speed(Motor)		0	[r/min]	C	OUTPUT			
	Actual Speed(Gear)		0	[r/min]		ALARM-C	DUT		
✓ Parameter	Load Factor		0	[%]					
-Data	Speed upper limit		0	[r/min]					
🖃 (p1) Operation data	Speed lower limit		0	[r/min]					
Parameter (p2) Base settings (p3) Speed/torque limiting adjustm	Alarm Condition Alarm Reset								
(T) (D3) Speed/torque limiting adjustry	00:Alarm not present								
🛃 (p4) Alarm/Information setting									
- 🖉 (p4) Alarm/Information setting - 🖉 (p5) Operation - 🖉 (p6) I/O action									
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- 🖉 (p4) Alarm/Information setting - 🖉 (p5) Operation - 🖉 (p6) I/O action	00:Alarm not present Driver data	#0	#1	#2	#3	#4 0	#5	#6 0	#7
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(p4) Alarm/Information setting (p5) Operation (p6) I/O action (p6) I/O function selection[Input] (p6) I/O function selection[Output (p6) I/O function selection[Output (p9) I/F Monitor Teaching G(m1) Teaching, remote operation Monitor Teaching (m2) Unit information monitor (m3) Status monitor (m3) Internal I/O monitor 	00:Alarm not present Driver data Speed[r/min] Torque limiting value[%] Acceleration[s] Cecleration[s] Cecleration[s] Cecleration Data #	0 0,0 0,0 0,0	0 0,0 0,0 0,0	0 0 0,0 0,0	0 0 0,0 0,0	0 0,0 0,0	0 0,0 0,0	0 0 0,0 0,0	0 0 0,0 0,0
(p4) Alarm/Information setting (p5) Operation (p5) I/O action (p6) I/O action (p7) I/O function selection[Input] (p8) I/O function selection[Output (p9) I/F (m1) Teaching, remote operation (m1) Teaching, remote operation (m1) Teaching, remote operation (m3) Status monitor (m3) Status monitor (m6) Alarm monitor	00:Alarm not present Driver data Speed[r/min] Torque limiting value[%] Acceleration[s] Cecleration[s] Cecleration Data # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0,0 0,0	0 0 0,0 0,0 flect teach	0 0,0 0,0	0 0 0,0 0,0 0,0	0 0,0 0,0	0 0,0 0,0	0 0,0 0,0	0 0 0,0 0,0
(p4) Alarm/Information setting (p5) Operation (p6) I/O action (p6) I/O function selection[Input] (p6) I/O function selection[Output (p6) I/O function selection[Output (p9) I/F Monitor Teaching G(m1) Teaching, remote operation Monitor Teaching (m2) Unit information monitor (m3) Status monitor (m3) Internal I/O monitor 	00:Alarm not present Driver data Speed[r/min] Torque limiting value[%] Acceleration[s] Cecleration[s] Cecleration Data # Operation Data # Operation Data # Speed[r/min]	0 0,0 0,0 0,0	0 0,0 0,0 0,0 flect teach g data 0	0 0 0,0 0,0	0 0 0,0 0,0 0,0 he driver	0 0,0 0,0	0 0,0 0,0	0 0,0 0,0	0 0 0,0 0,0 0,0 >
(p4) Alarm/Information setting (p5) Operation (p5) I/O action (p6) I/O action (p7) I/O function selection[Input] (p8) I/O function selection[Output (p9) I/F Monitor Teaching (m1) Teaching, remote operation Monitor (m2) Unit information monitor (m3) Status monitor	00:Alarm not present Driver data Speed[r/min] Torque limiting value[%] Acceleration[s] Cecleration[s] Cecleration Data # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0,0 0,0 0,0	0 0 0,0 0,0 flect teach	0 0 0,0 0,0	0 0 0,0 0,0 0,0	0 0,0 0,0	0 0,0 0,0	0 0 0,0 0,0 0,0	0 0 0,0 0,0 0,0

If the contents of ① to ⑧ are all OK and the motor does not move, the driver may be damaged.

Confirm the series/product name and condition of the motor/driver being used, and contact our Customer Service Center.

Oriental motor

Contact us

Please feel free to contact us with any questions you may have about motors, how to select a product, delivery times, prices, orders, etc.

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