GGM GGM GEARED MOTOR

C SPEED CONTROL UNIT

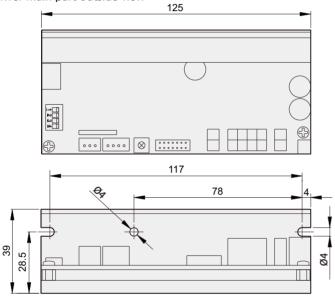




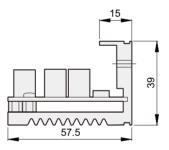
X Series motor applied product

Product appearance

Driver main part outside view

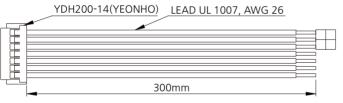






[Accessory]

Driver input signal cable, External volume



Driver power cable

MOLEX 5557-2R LEAD UL 3266, AWG 18 Black Red 300mm

[Optional Parts]

Please Buy extension cable additionally for extending between motor and control(optional)

Motor extension cable



L (extension MODEL cable length) KXEW-1 1m KXEW-1.5 1.5m KXEW-2 2m

Encoder extension cable

SMH200-08(YEONHO)

SMH200-08PL(YEONHO)

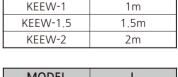
P Ъ



Brake extension cable

MOLEX 5559-2P MOLEX 5557-2R LEAD UL 1007, AWG 20 Black G B-12

Т



L

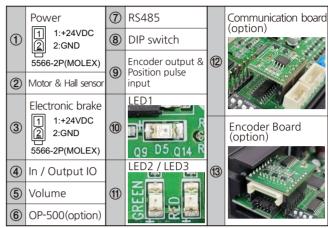
MODEL

MODEL	L
KXEW(B)-1	1m
KXEW(B)-1.5	1.5m
KXEW(B)-2	2m

GGM GGM GEARED MOTOR

Name and functions of each part





1. Specifications

ltem	GUX-2-30-B		GUX-2-50-B	GUX-2-100-B	Note
Rated output[W]	30W		50W	100W	
Input power[V]			DC 24V (±10%)		
Rated current[A]	2.1		3.1	6	
Max current[A]	3.7		5.4	9.8	
External size (mm)			125 X 58 X 39		
Communication		RS48			
Encoder		Enc			
Velocity control range	Speed control 100~3,000r/min (Velocity variation±1% or under)				
velocity control range	Position control		1~3,000r/min (Velocity vai	Encoder type (when controlling pulse input)	
	Termperature		Use∶0 ~ 40℃, Stora	Non-freezing	
Operating Environment	Humidity		Use : 85% below, Stor	Non-condensing	
	Environment	No	corrosive gas and dust, No		

2. DIP switch & internal volume specifications

ltem	Pin no.	Contents						Note	
DIP switch	1	OFF	30W	ON	50W	OFF	50W	100W	
	2	OFF	3000	OFF	5000	ON	5000	fixed	
	3	OFF	Hall sensor dirve mode			ON	Encoder drive mode		Applicable for Encoder option
1 2 3 4	4	OFF	Speed control			ON	Position control		
Internal volume		Ac/deceleration adjustment / Velocity Adjustment of SPEED INT							

3. LED specifications

Item		LED sign	Note
LED 1	Power ON / OFF	Power ON : Orange light on, Power OFF : Orange light off	
LED 2	Control ON / OFF	Control ON : Green light on, Control OFF : Green light off	
	Hall sensor alarm	Flickering once at intervals of 6 seconds (Red)	
LED 3 [alarm]	Low voltage alarm	Flickering twice at intervals of 6 seconds (Red)	
	Over load alarm	Flickering 3 times at intervals of 6 seconds (Red)	
	Parameter alarm	Flickering 4 times at intervals of 6 seconds (Red)	Motor stop
	Over heat alarm	Flickering 5 times at intervals of 6 seconds (Red)	Motor stop
	Over voltage alarm	Flickering 6 times at intervals of 6 seconds (Red)	
	Over speed alarm	Flickering 7 times at intervals of 6 seconds (Red)	
	Over current alarm	Flickering 8 times at intervals of 6 seconds (Red)	

Item	Pin no.		Contents	No	ote	
RS485	1	۵	+ (RS-48	Communication option (Separate purchse of		
321	2	E	3- (RS-485			
(YEONHO, SMW 250-03)	3		GND		communication board)	
OP-500	1		+5VDC			hase of OP-500
4224	2	R	X (RS-232	OP-500 Function		
4321	3	Т	X (RS-232	2)	- Speed indication - setting the parameter	
(YEONHO, SMW 250-04)	4	GND			(communication ID, Highest speed, etc)	
_Encoder output &	1	ENC_A-	2	ENC_A+	A phase output	
Position pulse input	3	ENC_B-	4	ENC_B+	B phase output	
1 3 5 7 9	5	OUT_Z-	6	OUT_Z+	Z phase output	Separate purchase of encoder board
	7	POS_IN-	8	POS_IN+	Position pulse	
(YEONHO, YDAW 200-10)	9	DIR_IN-	10	DIR_IN+	Direction pulse	

4. Communication or Encoder output & Position pulse input (option)

5. Input and output I/O specification

Pin no.	Name of signal	Color	Contents
1	SPEED_+5V	Red	Direct current power for speed setting $(+5V)$ / This is used as the power input of variable resistance for receiving this power supply from the external source and entering the speed, and it is prohibited to use it for any other purpose. 10K Ω (1/4W or higher) is used when the external variable resistance is used.
2	SPEED_IN	Orange	Direct current power input for speed setting/ Change the motor speed up to the maximum speed in proportion to (0~5VDC).
3	SPEED_GND	Black	GND
4	CW / CCW	Yellow	Decides the motor direction. CW direction if the input is "Low" (GND connection). CCW direction if the input is "High" (GND not connected).
5	START	White	If the input is "Low" (GND connection), the motor control function is enabled(Motor rotation ready). If the input is "High" (GND not connected) during motor rotation, the motor will stop automatically.
6	STOP	Blue	If the input is "Low" (GND connection) during motor rotation, the motor is stopped by the deceleration brake.
7	SPEED_IN	Brown	If the input is "Low" (GND connection), the speed is set using the internal volume. If the input is "High" (GND not connected), the speed is set using the external volume.
8	GND	Black	GND
9	Inpos Out	Green	Position movement completion output (when encoder type control the position) "Low" (0V) changing.
10	GND	Black	GND
11	Alarm Reset	Gray	This eliminates the cause of an alarm and forcibly resets the alarm. If the input is "Low" (GND connection), the alarm is reset.
12	SPEED_OUT	Pink	Motor speed pulseoutput (Open Collector) _ 15 pulseoutput a rotation.
13	Alarm Out	Purple	In the event of an alarm by alarm signal output (Open Collector), output changes to "Low" (0V).
14	N.C		

6. Features

Speed control

If I/O #7 input is "High" (GND not connected), motor speed changes up to the max speed in proportion to the external volume (I/O#2) input voltage ($0 \sim 5$ VDC).

In the event of utilizing external adjustable resistance, use the value of 10KQ (1/4W or over).

If I/O #7input is "Low" (GND connection), motor speed changes up to the max speed in proportion to the internal volume input voltage (0~3.3VDC)

Motor direction control

If I/O #4input is "Low" (GND connected), the motor rotates toward CW (to motor axis).

If I/O #4input is "High" (GND not connected), the motor rotates toward CCW (to motor axis).

Controller ON/OFF control

If I/O#5input is"Low" (GND connected), motor control function is activated. (green LED light on)

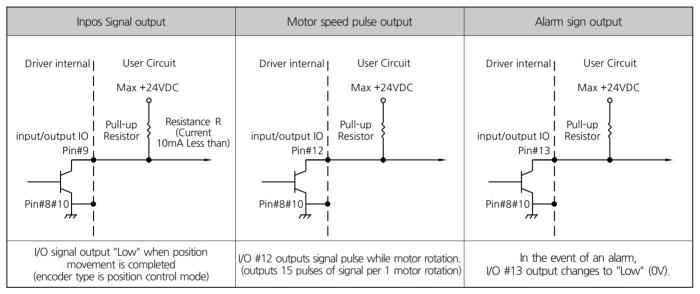
(ready for motor rotation)

Motor operation starts according to an external volume input value. If input is "High" (GND not connected) while motor rotation, the motor stops naturally.

Motor stop control

If I/O#6inputis "Low" (GND connected) while motor rotation, the motor stops. [deceleration - brake (no maintaining)]

Output signal



Electric brake control / position & direction instruction signal

