GGM GGM GEARED MOTOR

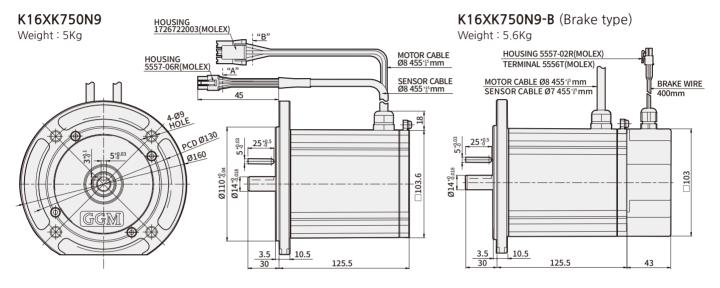
BRUSHLESS DC MOTOR UNIT - X Series



Ø160, □104mm



DIMENSIONS



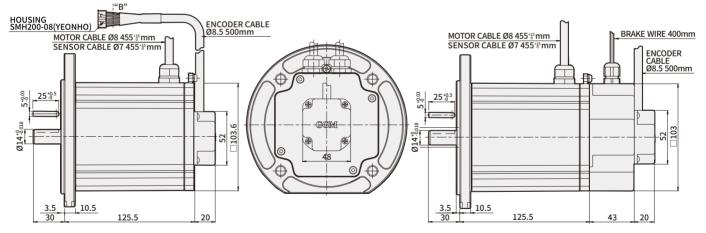
K16XK750N9-E (Encoder type) Weight : 5.1Kg

K16XK750N9-BE (Brake Encoder type) Weight : 5.7Kg

WHITE

3

W



Resolution	1,00	Timing diagram CW	
Outra t Tara	Output Form	Power Supply	
Output Type	Line Driver	+5Vdc ±10% 150mA below	

	CONNECTOR HOUSING			[ENCODER PIN MAP "C"			MOTOR PIN MAP "A"		
	MOTOR VIE	ENCODER VIEW "C"	[PIN No.	COLOR	SIGNAL	PIN No.	COLOR	SIGNAL	
		P	C	Ī	1	BLUE	Vcc(5Vdc)	1	YELLOW	VCC
A	АВ		C	Ī	2	BROWN	A	2	BLACK	DRAIN
				Ī	3	WHITE	/A	3	GREEN	Ground
	654 321			İ	4	ORANGE	В	4	BROWN	Hu
				İ	5	YELLOW	/B	5	WHITE	Hv
				Ì	6	GREEN	Z	6	ORANGE	Hw
				Ì	7	PURPLE	/Z	MC	DTOR PIN MA	ΑP "B"
				İ	8	GRAY	Ground	1	BLACK	U
L		1						2	RED	V

Specification

		GEAR TYPE		K8XH50N2	K9XH100N2	K10XH200N2	K10XH400N9	-		
Product name	STRAIGHT TYPE		K6XS30N2	K8XS50N2	K9XS100N2	K10XS200N2	K10XS400N9	-		
	KEY TYPE		K6XK30N2	K8XK50N2	K9XK100N2	K10XK200N2	K10XK400N9	K10XK750N9		
Rating output (continuous) W			30	50	100	200	400	750 (IEC)		
Rating voltage V				DC	DC 48					
Power Rating voltage allowance			±10%							
input	Rating input current A		2.1	3.1	6	13	11	18		
	Maximum input current A		3.7	5.4	9.8	25	18	30		
Rating torque N·m			0.12	0.2	0.4	0.65	1.3	2.4		
Starting torque N·m			0.15	0.24	0.5	1.15	1.8	3.5		
Rating rotation speed r/min			2500				3000			
Speed control range r/min			100~3000			100~	100~3000			
	Load Less than or equal to ±1% : condition 0-rated tor rated rotation speed, rated voltage, room temperated rotation speed, room temperated rotation speed, robation speed, rated voltage, room temperated rotation speed, robation speed, robat									
Speed change rate		Voltage	Less than or equal to ±1% : condition rating voltage ±10%, rating rotation speed, no load, room temperature							
late		Temperature	Less than or equal to ±1% : condition surrounding temperature 0~+40°C, rating rotation speed, no load, rating voltage							

* -B (BRAKE), -E (ENCODER) or -BE (BRAKE+ENCODER) can be added to end of the motor model name.

The usage duration for starting torque is within 5 seconds at less than 2000 r/min.
 Each specification value is the characteristic of motor by itself.

* IEC Type is same as K10BK750NC specification.

Common specifications

Product name	Specification			
Rotation speed setting method	 Set up by external potentiometer Set up by external DC 0~5V 			
Acceleration time deceleration time	0.5~10 seconds : set at 2000 r/min when there is no load (it may change depending on the size of the load) Accleration time and deceleration control equipment to control at the same time			
Input signal	Internal full-up input method, external input voltage read as greater than 2v high(off) same at all input ports			
Protection function	 If the following protection mode comes on, cotrol unit alarm signal is shown. Motor stops automatically. Overload protection mode : If torque that is greater than the rating is applied to the motor for more than 5 seconds Overvoltage protection : If voltage applied to the control unit goes over the upper bound of the rating allowance Open phase protection : If cable sensor line gets disconnected during motor operation Undervoltage protection : If voltage applied to the control unit is less than the lower bound of th rating voltage allowance Over speed protection : If motor rotation speed is faster than 2500 r/min 			
Motor insulation class	E TYPE(120°C)			
Maximum extension distance	MOTOR - CONTROL UNIT 2m			
Rated time	Continuous			

* Like weight carried being downwards, X SERIES cannot control motor speed through weight.

Motor gets stopped automatically through overvoltage protection of load is being carried downwards or it is heavier than allowed load inertia.

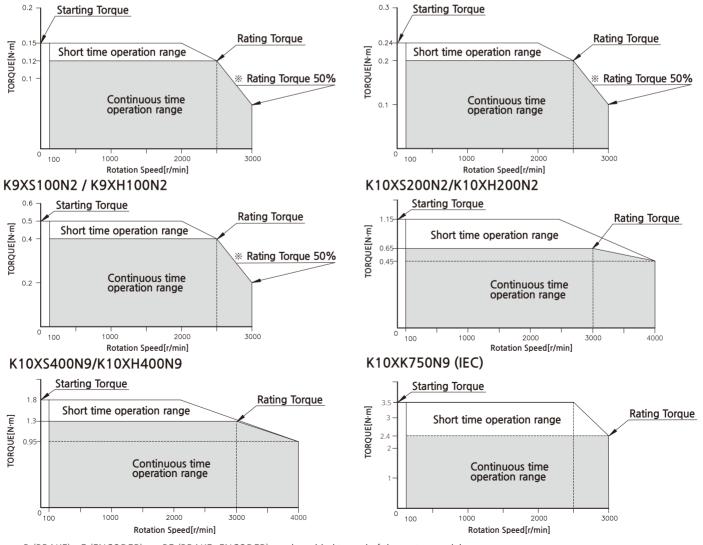


Item		Motor Control unit						
Insulation Resistance		After being operated continuously at room temperature and humidity, the value measured between coil and vase by DC 500V MEGA is greater than or equal to $100 M_{\odot}$	After being operated continuously at room temperature and humidity, the value measured between heatproof plate and power input is greater than or equal to 100102					
Dielectric Strength		After being operated continuously at room temperature and humidity, there shouldn't be any problem between coil and case even when AC 0.5kV is applied for 1 minute	No problem when 50Hz, AC 0.5kV is applied for one minute No problem when AC 0.5kV is applied for one minute					
	Used Ambient temperature	0℃~+50℃ (should not freeze)						
	Used Ambient Humidity	less than or equal to 85% (not from dews)						
Used	Vibration	Altitude less than 1000m						
environment	Ambient environment	Cannot be used under special circumstances such as withcorrosive gas, dust, radioactive material, magnetic and vacuum						
	Vibration	Should not apply constant vibration or huge impact according to the JIS C 60068-2-6 sine wave vibration test method Frequency range : 10~55Hz, peak amplitude : 0.15mm, sweet direction : 3 direction(X,Y,Z), number of sweeps : 20 times						
Conservation	Ambient temperature	-25 ~ +70°C (should not freeze)						
environment	Ambient Humidity	less than or equal to 85% (not form dews)						
	Altitude	Altitude less than	3000m					
Insulation class UL, CSA STANDARD A TYPE(105°C), EN STANDARD E TYPE(120°C)								
Protection class IP65 IP00								

Preservation environment is a short-term value, which includes transportation.
 Do not measure insulation resistance and pressure resistance while motor and driver are connected.

Rotation speed- torgue characteristic

K6XS30N2 / K6XH30N2



* -B (BRAKE), -E (ENCODER) or -BE (BRAKE+ENCODER) can be added to end of the motor model name.

* DC24V is the value without cable extension.

K8XS50N2 / K8XH50N2

B-7