GGM GGM GEARED MOTOR

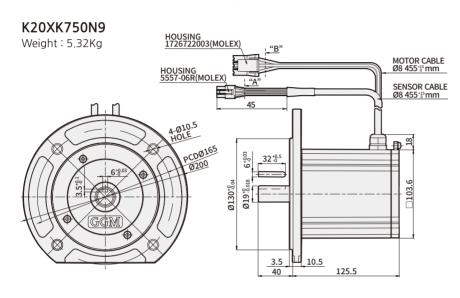
BRUSHLESS DC MOTOR UNIT - X Series

IEC 750W

Ø200, □104mm DC 48V Input

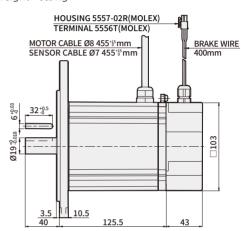


DIMENSIONS

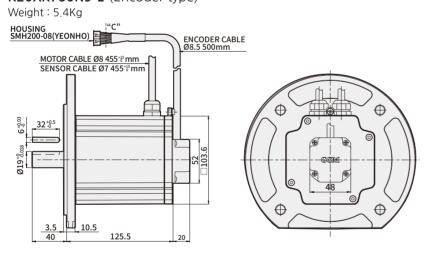


K20XK750N9-B (Brake type)

Weight: 5.9Kg

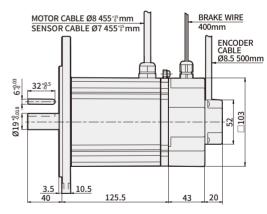


K20XK750N9-E (Encoder type)



K20XK750N9-BE (Brake Encoder type)

Weight: 6Kg



Resolution	1,000PPR		Timing diagram CW
Output Type	Output Form	Power Supply	
	Line Driver	+5Vdc ±10% 150mA below	z

CONNECTOR HOUSING				
MOTOR VIEV	ENCODER VIEW "C"			
A 654 321	B	C [87654321]		

ENCODER PIN MAP "C"				
PIN No.	COLOR	SIGNAL		
1	BLUE	Vcc(5Vdc)		
2	BROWN	Α		
3	WHITE	/A		
4	ORANGE	В		
5	YELLOW	/B		
6	GREEN	Z		
7	PURPLE	/Z		
8	GRAY	Ground		

MOTOR PIN MAP "A"				
PIN No.	COLOR	SIGNAL		
1	YELLOW	VCC		
2	BLACK	DRAIN		
3	GREEN	Ground		
4	BROWN	Hu		
5	WHITE	Hv		
6	ORANGE	Hw		
MOTOR PIN MAP "B"				
1	BLACK	U		
2	RED	V		
3	WHITE	W		



Specification

	GEAR TYPE		K6XH30N2	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		DC24			DC 48		
Power Rating voltag		e 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 co	Speed control range r/min			100~3000		100~4000 100~		100~3000
	Load Less than or equal to ±1%: condition 0-rated torque rated rotation speed, rated voltage, room temperature.							
Speed change rate		Voltage	Less than or equal to ±1% : condition rating voltage ±10%, rating rotation speed, no load, room temperature					
1416		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.



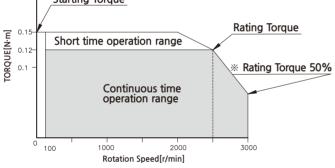
Normal specifications

lhon	-	Motor	Control unit		
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 $100 M\Omega$	After being operated continuously at room temperature and humidity, the value measured between heatproof plate and power input is greater than or equal to 100 M2		
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: $10\sim55$ Hz, peak amplitude: 0.15 mm, sweet direction: 3 direction(X,Y,Z), number of sweeps: 20 times			
Conservation	Ambient temperature	-25 ~ +70℃ (should not freeze)			
environment	Ambient Humidity	less than or equal to 85% (not form dews)			
	Altitude	Altitude less than 3000m			
Insulation	n class	UL, CSA STANDARD A TYPE(105℃), EN STANDARD E TYPE(120℃)			
Protectio	n class	IP65	IP00		

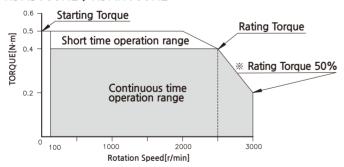
- * Preservation environment is a short-term value, which includes transportation.
- * Do not measure insulation resistance and pressure resistance while motor and driver are connected.

Rotation speed-torque characteristic

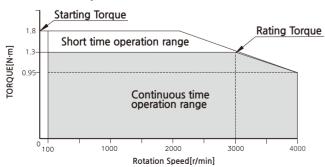




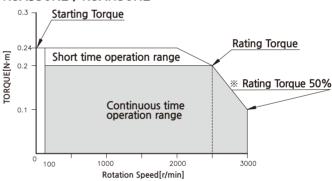
K9XS100N2 / K9XH100N2



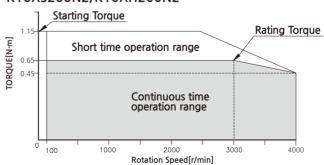
K10XS400N9/K10XH400N9



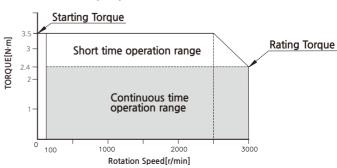
K8XS50N2 / K8XH50N2



K10XS200N2/K10XH200N2



K10XK750N9 (IEC)



- * -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.