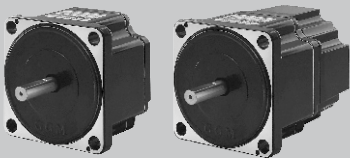


BRUSHLESS DC MOTOR UNIT - X Series

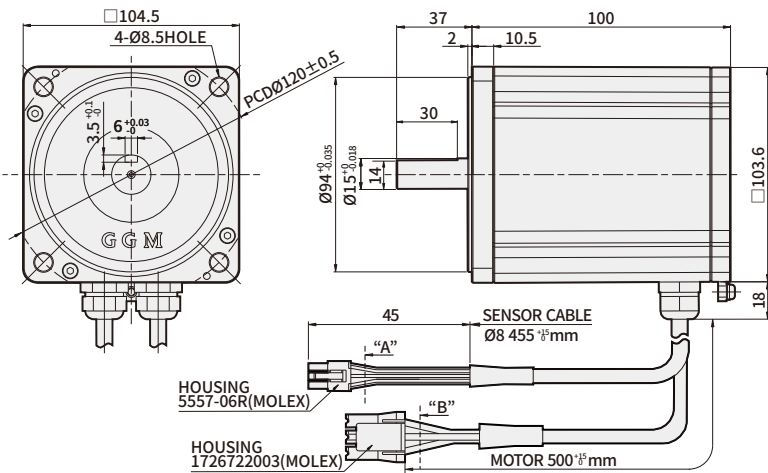
400W

□104mm
DC 24V

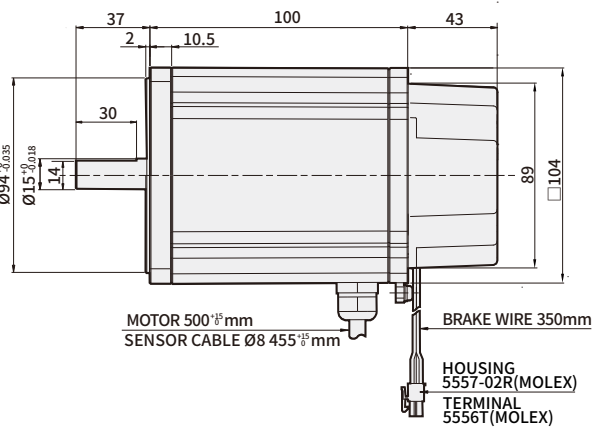


DIMENSIONS

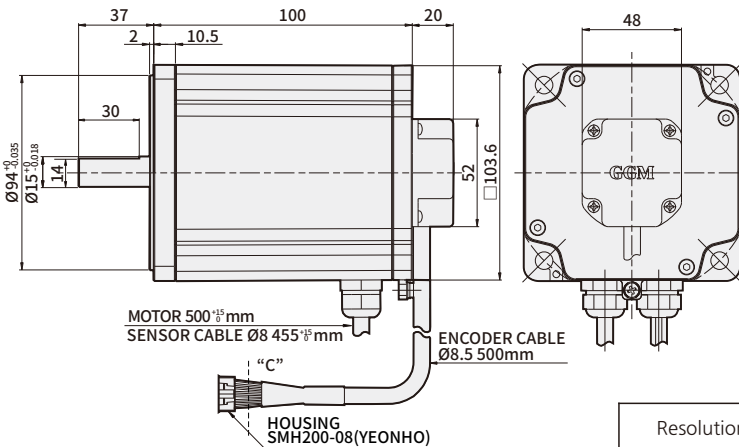
K10XS400N2 (24V)
Weight : 3.1Kg



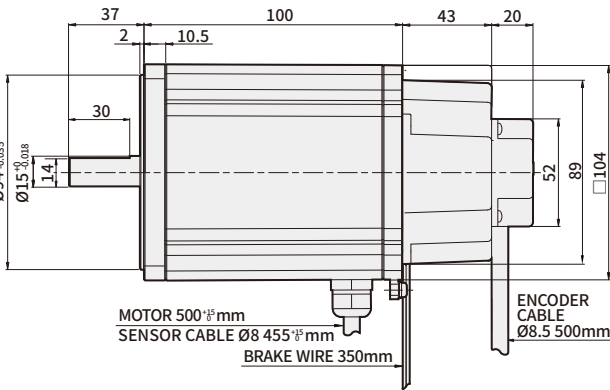
K10XS400N2-B (Brake type)
Weight : 3.7Kg



K10XS400N2-E (Encoder type)
Weight : 3.2Kg



K10XS400N2-BE (Brake Encoder type)
Weight : 3.8Kg



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

CONNECTOR HOUSING		
MOTOR VIEW "A" / "B"		ENCODER VIEW "C"
A 	B 	C

ENCODER PIN MAP "C"		
PIN No.	COLOR	SIGNAL
1	BLUE	Vcc(5Vdc)
2	BROWN	A
3	WHITE	/A
4	ORANGE	B
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

Product name	GEAR TYPE		K6XH30N2	K8XH50N2	K9XH100N2	K10XH200N2	K10XH400N9	K10XH400N2	-
	STRAIGHT TYPE		K6XS30N2	K8XS50N2	K9XS100N2	K10XS200N2	K10XS400N9	K10XS400N2	-
	KEY TYPE		K6XK30N2	K8XK50N2	K9XK100N2	K10XK200N2	K10XK400N9	K10XK400N2	K10XK750N9
Rating output (continuous)		W	30	50	100	200	400		750 (IEC)
Power input	Rating voltage	V	DC 24				DC 48	DC 24	DC 48
	Rating voltage allowance		±10%						
	Rating input current	A	2.1	3.1	6	13	11	24	18
	Maximum input current	A	3.7	5.4	9.8	25	18	30	30
정격TORQUE		N·m	0.12	0.2	0.4	0.65	1.3	1.3	2.4
기동TORQUE		N·m	0.15	0.24	0.5	1.15	1.8	1.8	3.5
정격회전속도		r/min	2500			3000			
속도제어범위		r/min	100~3000			100~4000		100~3000	
Speed change rate	Load		Less than or equal to ±1% : condition 0-rated torque, rated rotation speed, rated voltage, room temperature						
	Voltage		Less than or equal to ±1% : condition rating voltage ±10%, rating rotation speed, no load, room temperature						
	Temperature		Less than or equal to ±1% : condition surrounding temperature 0~+40℃, 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 K10XK750NC specification.

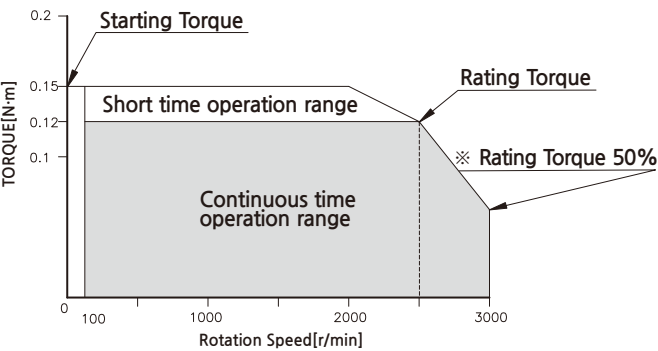
→ Normal specifications

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 100MΩ	After being operated continuously at room temperature and humidity, the value measured between heatproof plate and power input is greater than or equal to 100MΩ
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.	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.
Used environment	Used Ambient temperature	0℃~+50℃ (should not freeze)	
	Used Ambient Humidity	less than or equal to 85% (not from dews)	
	Vibration	Altitude less than 1000m	
	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 environment	Ambient temperature	-25 ~ +70℃ (should not freeze)	
	Ambient Humidity	less than or equal to 85% (not form dews)	
	Altitude	Altitude less than 3000m	
Insulation class		UL, CSA STANDARD A TYPE(105℃), EN STANDARD E TYPE(120℃)	
Protection class		IP65	
		IP00	

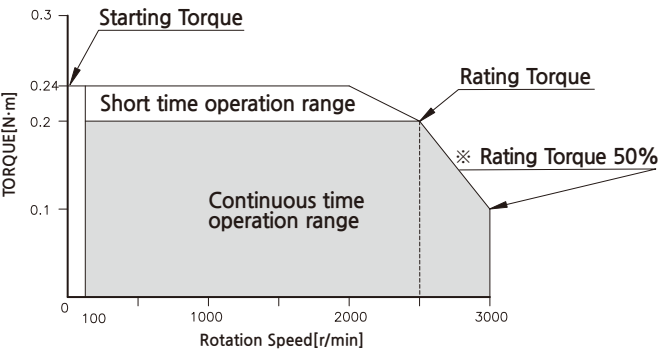
- ※ Preservation environment is a short-term value, which includes transportation.
- ※ Do not measure insulation resistance and pressure resistance while motor and driver are connected.

Rotation speed- torque characteristic

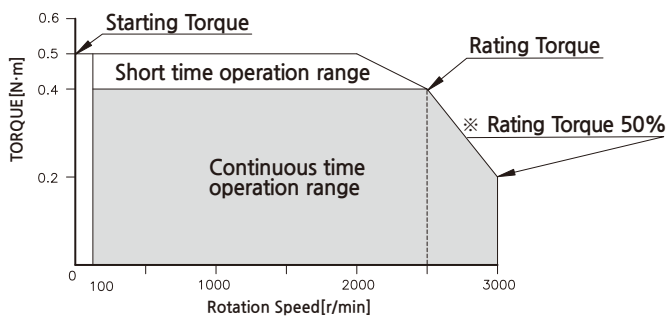
K6XS30N2 / K6XH30N2



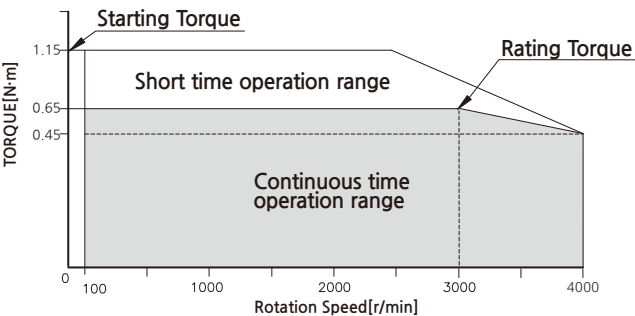
K8XS50N2 / K8XH50N2



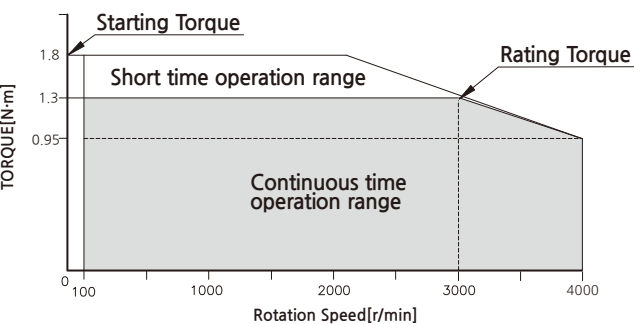
K9XS100N2 / K9XH100N2



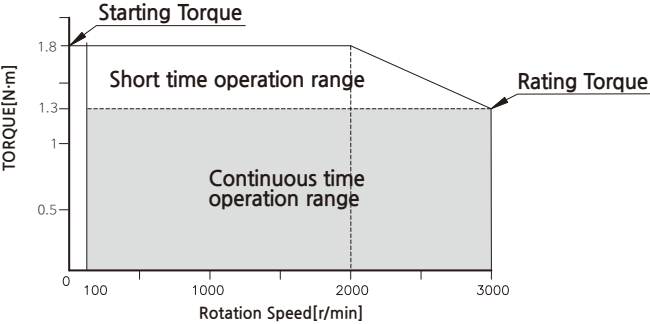
K10XS200N2/K10XH200N2



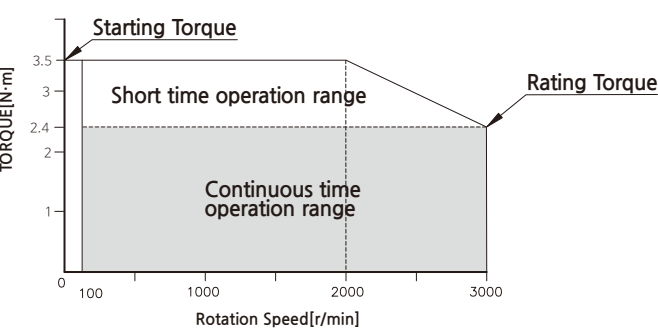
K10XS400N9/K10XH400N9



K10XS400N2 / K10XH400N2



K10XK750N9 / K16XK750N9 / K20XK750N9



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