GGM GGM GEARED MOTOR

BRUSHLESS DC MOTOR UNIT - X Series



K10XK750N9

DC 48V Input



DIMENSIONS

K10XK750N9-B (Brake type)

Weight: 4.7Kg Weight: 5.3Kg □104.5 <u>4-Ø8.5HOLE</u> 40.5 125 43 40.5 125 10.5 10.5 2 2 PCD@120±0.5 ÓÓ 0 32^{+0.5} 32^{+0.5} ര 6^{+0.03} 6.00 'n 6+0.03 Д Ø19^{+0.018} 0103.6 Ø94^{+0.035} Ø19^{+0.018} Ø94^{±0.035} 103 GĠM 0 \otimes ₽ T 18 45 SENSOR CABLE MOTOR 455thmm Ø8 455 ***mm SENSOR CABLE Ø8 455*8 mm <u>_"A"</u> BRAKE WIRE 400mm Þ HOUSING 5557-06R(MOLEX) "В HOUSING 5557-02R(MOLEX) HOUSING 1726722003(MOLEX) MOTOR 455*85 mm 囧 TERMINAL 5556T(MOLEX) K10XK750N9-E (Encoder type) K10XK750N9-BE (Brake Encoder type) Weight: 4.8Kg Weight: 5.4Kg 40.5 40.5 125 20 125 43 20 48 10.5 10.5 2 2 6 X 32^{+0.5} 32+8.5 6.0.0 6-0.03 6 52 103.6 Ø94^{±0.035} Ø19⁺⁰.018 Ø19^{+0.018} 52 103 GĠM **294**^{±0} ÷₽ ENCODER CABLE Ø8.5 500mm Ť MOTOR 455*5mm SENSOR CABLE Ø8 455*5mm MOTOR 455⁺[®]mm SENSOR CABLE Ø8 455*8 mm ENCODER CABLE BRAKE WIRE 400mm "C" HOUSING SMH200-08(YEONHO) Timing diagram CW 1.000PPR Resolution А Output Form Power Supply ٦ Γ В Output Type +5Vdc ±10% Line Driver Ζ 150mA below CONNECTOR HOUSING ENCODER PIN MAP "C" MOTOR PIN MAP "A" COLOR ENCODER VIEW "C SIGNAL MOTOR VIEW "A" PIN No. COLOR SIGNAL PIN No. "R BLUE Vcc(5Vdc) YELLOW VCC A В С BLACK DRAIN 2 BROWN A GREEN Ground 3 WHITE 3 /A υĘ BROWN 4 4 ORANGE В Hu 6 5 4 87654321 WHITE 5 YELLOW /B 5 Ηv U V W 321 6 ORANGE Ηw GREEN 6 7 MOTOR PIN MAP "B" PURPLE 7 /Z

8

GRAY

Ground

B-5

U

V

W/

BLACK

RED

WHITE

Specification

Product name	GEAR TYPE		K6XH30N2	K8XH50N2	K9XH100N2	K10XH200N2	K10XH400N9	-
	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 input	Rating voltag	e allowance	±10%					
	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			100~4000		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					
	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.

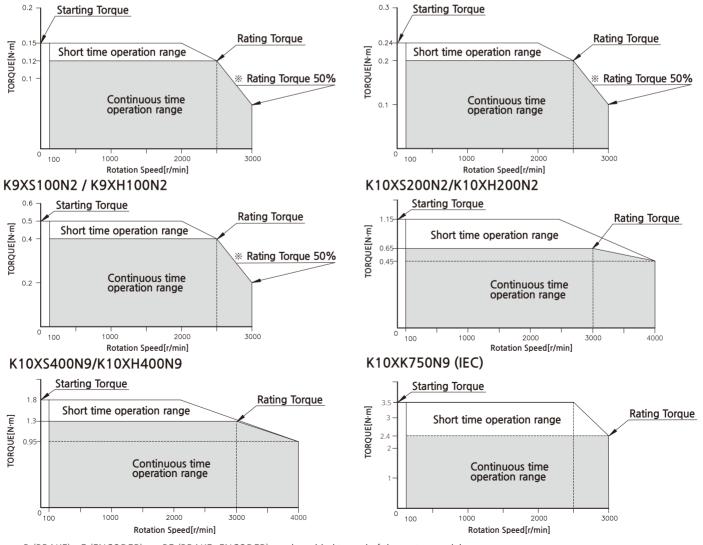


Iten	n	Motor	Control unit			
Insulation Resistance		After being operated continuously at room temperature and humidity, the value measured between coil and vase by DC 500V MEGA is greater than or equal to $100 M_{\odot}$	After being operated continuously at room temperature and humidity, the value measured between heatproof plate and powe 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 : 10~55Hz, peak amplitude : 0.15mm, sweet direction : 3 direction(X,Y,Z), number of sweeps : 20 times				
Conservation	Ambient temperature	-25 ~ +70°C (should i	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℃), EN STANDARD E TYPE(120℃)				
Protection class		IP65	IPOO			

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

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