

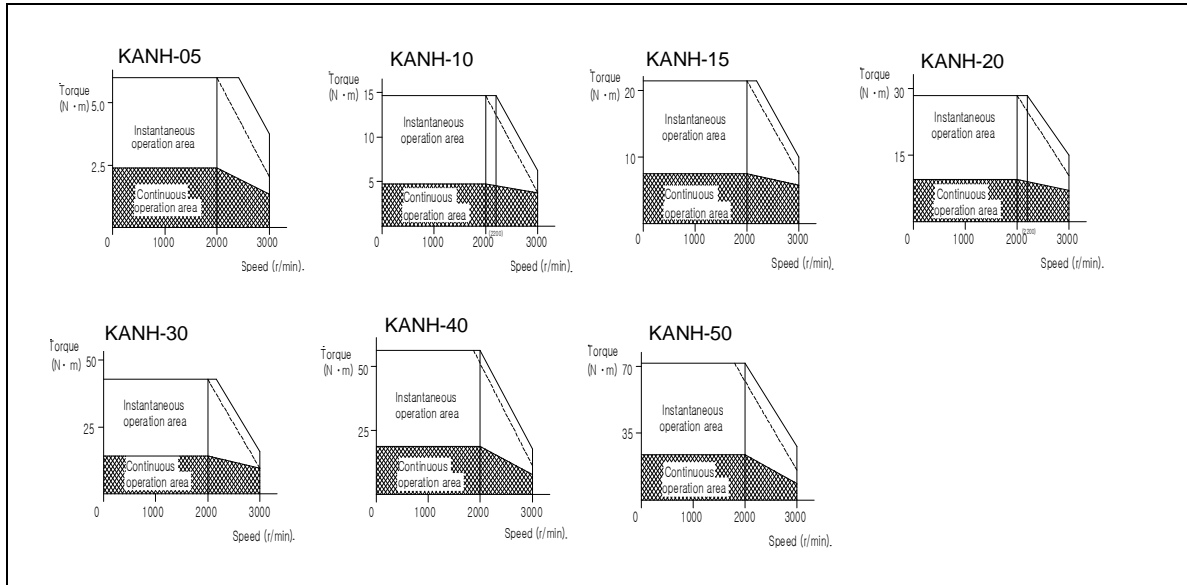
KANH Series - Specifications and Characteristics

Servo motor specifications

Servo motor series		KANH						
Flange size (mm)		130			180			
Model		05	10	15	20	30	40	50
Specifications		05	10	15	20	30	40	50
Supply voltage (V _{AC})		200/220V						
Continuous running duty	Rated output (kW)	0.5	1.0	1.5	2.0	3.0	4.0	5.0
	Rated torque (N·m)	2.39	4.77	7.15	9.55	14.32	19.1	23.87
Maximum torque (N·m)		6.0	14.4	21.5	28.5	42.9	56.4	71.4
Rated rotation speed (r/min)		2000						
Maximum rotation speed (r/min)		3000						
Rated power rate (kW/s)		4.2	8.9	12.2	15.0	22.2	31.1	34.1
Rated current (Arms)		3.2	5.6	9.9	12.3	17.8	23.4	28.0
Momentary maximum current (Arms)		8.1	16.8	28.3	36.7	53.6	70.7	84.9
Rotor inertia (kg·m ² ×10 ⁻⁴)	Standard	14.0	26.0	42.9	62.0	94.1	120.0	170.0
	With brake	15.2	27.2	44.1	67.9	100.0	126.0	176.0
Encoder		2500 P/R Incremental / 17bit Absolute						
Recommended load/motor inertia ratio		Less than 5-times the servo motor's inertia						
Structure		Totally enclosed non ventilated (protection degree:IP65)						
Environment	Ambient temperature	0 to 40 °C (32 to 104 °F) (non freezing), storage: -15 to 70 °C (5 to 158 °F) (non freezing)						
	Ambient humidity	85% RH max. (non condensing), storage: 90% RH max.(non condensing)						
	Atmosphere	Indoors (no direct sunlight); no corrosive gas, inflammable gas, oil mist, or dust						
	Elevation/Vibration	1000meters or less above sea level, 49 m/s2 below						
Weight (kg)	Standard	5.3	8.5	10.0	16.0	18.2	22.0	26.7
	With brake	6.9	9.5	11.6	19.5	21.7	25.5	30.2

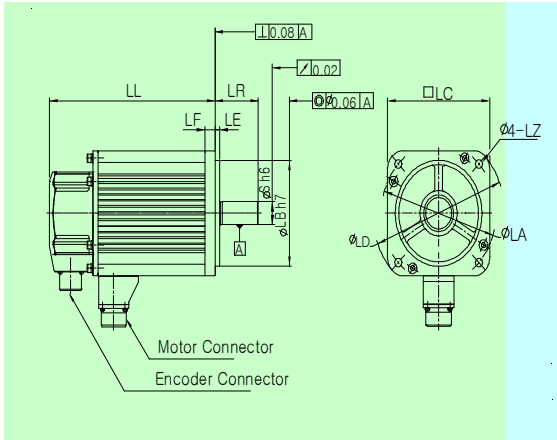
1. If used in location such as actual site of machinery where oil or water may influence the product, special specifications apply, contact KOMOTEK.
2. This specification is guaranteed after combining and adjusting with the driver.
3. All ratings typical and at 20 °C unless otherwise noted.
4. Contact KOMOTEK if the load/motor of inertia moment ratio exceeds the figure in the table.

Servo motor torque characteristics



1. Dotted lines show torque characteristics for 10% derated voltage operation.

Motor dimensions



Motor connector (MS 3102A-)

Series	KANH	
Rated power [kW]	0.5~1.5	2.0~5.0
Standard	20-4p	22-22P
With brake	20-18p	24-11P

Specifications of motor/brake connector

Brake	Standard			With brake			
Part no.	MS 3102A 20-4P, 22-22P	MS 3102A 20-18P	MS 3102A 24-11P	MS 3102A 20-18P	MS 3102A 24-11P		
Pin spec.	Pin no.		Signal	Pin no.		Signal	
	G	A		G	A	BR	
	H	B		H	B	BR	
	A	C		A	C		
	A	F	D	U	F	D	U
	B	I	E	V	I	E	V
	C	B	F	W	B	F	W
	D	E	G	FG	E	G	FG
Outlines	MS 3102A 20-4P, 22-22P	MS 3102A 20-18P	MS 3102A 24-11P	MS 3102A 20-18P	MS 3102A 24-11P		

Series	KANH							
Rated power [kW]	0.5	1.0	1.5	2.0	3.0	4.0	5.0	
LL	Standard	158.0	183.0	208.0	200.0	215.0	230.0	260.0
	With brake	183.0	208.0	233.0	225.0	240.0	255.0	285.0
LR	70.0	70.0	70.0	80.0	80.0	80.0	80.0	
S	22.0	22.0	22.0	35.0	35.0	35.0	35.0	
LA	145.0	145.0	145.0	200.0	200.0	200.0	200.0	
LB	110.0	110.0	110.0	114.3	114.3	114.3	114.3	
LC	130.0	130.0	130.0	180.0	180.0	180.0	180.0	
LD	165.0	165.0	165.0	230.0	230.0	230.0	230.0	
LE	6.0	6.0	6.0	3.2	3.2	3.2	3.2	
LF	12.0	12.0	12.0	18.0	18.0	18.0	18.0	
LZ	9.0	9.0	9.0	13.5	13.5	13.5	13.5	

Special specifications

Electromagnetic brake specifications

Series	KANH							
Rated power [kW]	0.5	1.0	1.5	2.0	3.0	4.0	5.0	
Static friction torque	Nm	16.1	16.1	16.1	24.5	24.5	24.5	24.5
Response time	ms	110	110	110	80	80	80	80
Release time	ms	50	50	50	25	25	25	25
Rated voltage	VDC	24	24	24	24	24	24	24
Rated current (A) at 20°C		0.9	0.9	0.9	1.3	1.3	1.3	1.3

Special shaft end specifications

key

Series	KANH	
Rated power (W)	0.5~1.5	2.0~5.0
LW	45	55
LK	41	50
KW	8h9	10h9
KH	7	8
RH	18	30

Key

Connector pin arrangement

Encoder connectors

Model		Part no.	Pin specifications										Outlines
KANH-05-50	Inc.	MS 3102A 20-29P	Pin	A	B	C	D	E	F	G	H	J	
			Signal	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	0V	+5V	FG	
			Pin	K	L	M	N	P	R	S	T		
			Signal	U	\bar{U}	V	\bar{V}	W	\bar{W}				
	Abs.(17bit)	MS 3102A 20-29P	Pin	A	B	C	D	E	F	G	H	J	
			Signal							0V	+5V	FG	
			Pin	K	L	M	N	P	R	S	T		
			Signal	SD	\bar{SD}					BAT -	BAT +		
	Abs.(11bit)	MS 3102A 20-29P	Pin	A	B	C	D	E	F	G	H	J	
			Signal	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	0V	+5V	FG	
			Pin	K	L	M	N	P	R	S	T		
			Signal	RX	\bar{RX}					RST	BAT -	BAT +	