

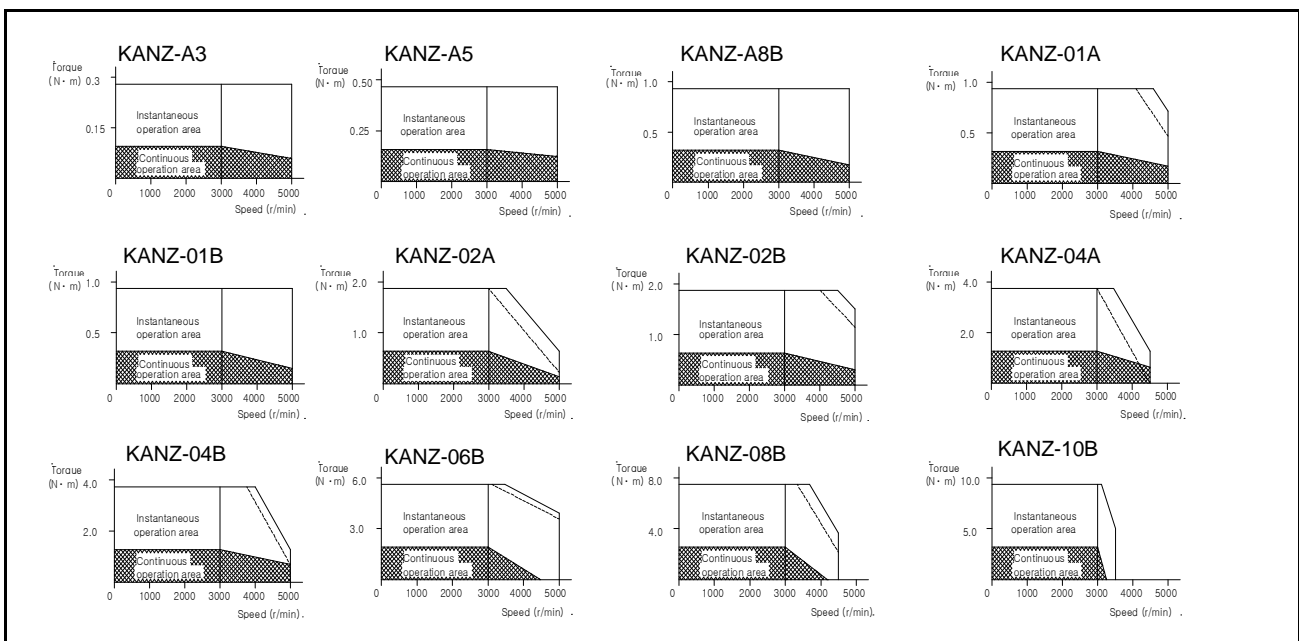
KANZ Series - Specifications and Characteristics

Servo motor specifications

Servo motor series		KANZ												
Flange size (mm)		40			60			40		60		80		
Specification / Model		A3	A5	01	02	04	A8	01	02	04	06	08	10	
Supply voltage (V _{AC})		100/110, 200/220			100/110			200/220						
Continuous running duty	Rated output (W)	30	50	100	200	400	80	100	200	400	600	750	950	
	Rated torque (N·m)	0.095	0.16	0.32	0.64	1.3	0.26	0.32	0.64	1.3	1.9	2.4	3.0	
Maximum torque (N·m)		0.28	0.48	0.95	1.91	3.8	0.76	0.95	1.91	3.8	5.73	7.1	9.1	
Rated rotation speed (r/min)		3000												
Maximum rotation speed (r/min)		5000			4500			5000		4500			3500	
Rated power rate (kW/s)		4.4	8.7	17.2	21.8	48.7	17.0	17.7	21.8	48.7	39.2	48.3	62.2	
Rated current (Arms)		1.0	1.0	1.6	2.5	4.4	1.0	1.0	1.6	2.5	4.1	4.3	4.3	
Momentary maximum current (Arms)		3.04	3.04	4.87	7.42	13.15	3.04	3.04	4.87	7.42	12.30	12.90	12.90	
Rotor inertia (kg·m ² ×10 ⁻⁴)	Standard	0.021	0.030	0.060	0.19	0.34	0.039	0.059	0.19	0.34	0.93	1.20	1.47	
	With brake	0.025	0.034	0.063	0.21	0.36	0.049	0.061	0.21	0.36	1.05	1.32	1.49	
Encoder		2500 P/R Incremental / 17bit Absolute												
Recommended load/motor inertia ratio		Less than 30-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/s ² below												
Weight (kg)	Standard	0.32	0.39	0.66	1.0	1.7	0.50	0.66	1.0	1.7	2.9	3.5	4.1	
	With brake	0.54	0.63	0.93	1.5	2.3	0.77	0.93	1.5	2.3	3.5	4.3	4.9	

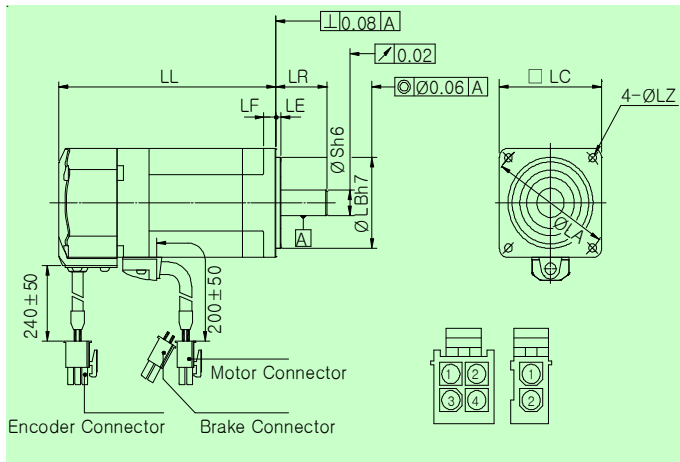
1. If used in location such as actual site of machinery where oil or water may influence the product, special specifications apply, contact KOMOTEK.
2. This specification is guaranteed after combining and adjusting with the driver.
3. All ratings typical and at 20°C unless otherwise noted.
4. Contact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



Specifications of motor/brake connector

Brake	Standard		with Brake	
Part no.	AMP/ 172167-1		AMP/ 172167-1 AMP/ 172165-1	
Pin spec.	Pin no.	Signal	Pin no.	Signal
	1	U	1	U
	2	V	2	V
	3	W	3	W
	4	FG	4	FG
			1	BR
		2	BR	

Series		KANZ								
Rated power [W]		30	50	80	100	200	400	600	750	950
LL	Standard	74	82	102	112	98.5	128	129	147	165
	With brake	106	114	134	144	131	160.5	164	182	200
LR		25	25	25	25	30	30	35	35	35
S		7	8	8	8	11	14	16	19	19
LA		45	45	45	45	70	70	90	90	90
LB		30	30	30	30	50	50	70	70	70
LC		40	40	40	40	60	60	80	80	80
LE		3	3	3	3	3	3	3	3	3
LF		6	6	6	6	7	7	8	8	8
LZ		3.6	3.6	3.6	3.6	5.5	5.5	6.6	6.6	6.6

Special specifications

Electromagnetic brake specifications

Series		KANZ								
Rated power [W]		30	50	80	100	200	400	600	750	950
Static friction torque	Nm	0.29	0.29	0.29	0.29	1.27	1.27	2.45	2.45	2.45
Response time	ms	25	25	25	25	50	50	60	60	60
Release time	ms	20	20	20	20	15	15	15	15	15
Rated voltage	V _{DC}	24	24	24	24	24	24	24	24	24
Rated current (A) at 20°C		0.26	0.26	0.26	0.26	0.36	0.36	0.43	0.43	0.43

Special shaft end specifications

key & D-cut

Series	KANZ								
Rated power (W)	30	50	80	100	200	400	600	750	950
LW/LN(D-cut)	13/20	14/20	14/20	14/20	20/22	25/22	25/25	25/25	25/25
LK	12	12.5	12.5	12.5	18	22.5	25/25	25/25	25/25
KW	2 h9	3 h9	3 h9	3 h9	4 h9	5 h9	6 h9	6 h9	6 h9
KH	2	3	3	3	4	5	6	6	6
RH/LP(D-cut)	5.8/6.5	6.2/7.5	6.2/7.5	6.2/7.5	8.5/10	11/12.5	15.5/17.5	15.5/17.5	15.5/17.5

Key

D-cut

Connector pin arrangement

Encoder connectors

Model		Wires	Part no.	Pin specifications									Outlines	
KANZ-A3-08	Inc.	15	AMP/ 172171-1	Pin	1	2	3	4	5	6	7	8	9	
				Signal	A	\overline{A}	B	\overline{B}	Z	\overline{Z}	U	\overline{U}	V	
				Pin	10	11	12	13	14	15				
				Signal	\overline{V}	W	\overline{W}	+5V	0V	FG				
	Abs. (17bit)	9	AMP/ 172169-1	Pin	1	2	3	4	5	6	7	8	9	
				Signal	A	\overline{A}	B	\overline{B}	Z	\overline{Z}	+5V	0V	FG	
		9	AMP/ 172169-1	Pin	1	2	3	4	5	6	7	8	9	
				Signal	BAT +	BAT -	FG	SD	\overline{SD}		+5V	0V		