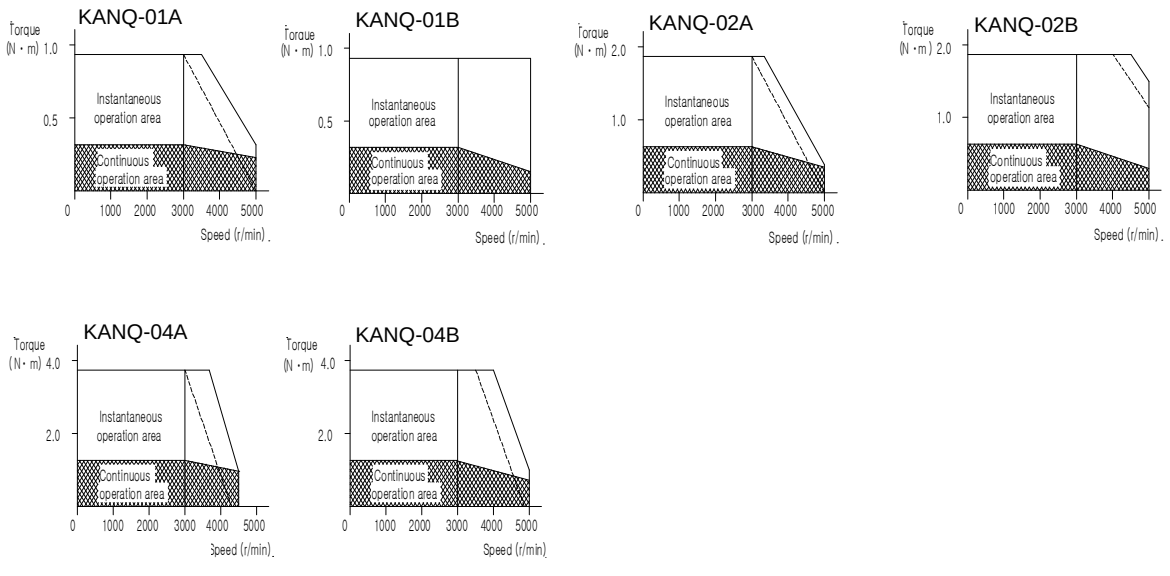
KANQ Series - Specifications and Characteristics

Servo motor specifications

Servo motor series		KANQ					
Flange size (mm)		60	80		60	80	
Specification \ Model		01	02	04	01	02	04
Supply voltage (V_{AC})		100/110			200/220		
Continuous running duty	Rated output (W)	100	200	400	100	200	400
	Rated torque (N·m)	0.32	0.64	1.3	0.32	0.64	1.3
Maximum torque (N·m)		0.95	1.91	3.82	0.95	1.91	3.82
Rated rotation speed (r/min)		3000					
Maximum rotation speed (r/min)		5000		4500	5000		
Rated power rate (kW/s)		9.4	11.5	26.7	9.4	11.5	26.7
Rated current (Arms)		1.6	2.5	4.4	1.0	1.6	2.5
Momentary maximum current (Arms)		3.44	5.25	9.30	3.04	4.88	7.42
Rotor inertia ($kg \cdot m^2 \times 10^{-4}$)	Standard	0.11	0.36	0.62	0.11	0.36	0.62
	With brake	0.14	0.49	0.74	0.14	0.49	0.74
Encoder		2500 P/R Incremental / 17bit Absolute					
Recommended load/motor inertia ratio		Less than 20-times the servo motor's inertia					
Structure		Totally enclosed non ventilated (protection degree:IP65)					
Environment	Ambient temperature	0 to 40℃ (32 to 104°F) (non freezing), storage: -15 to 70℃(5 to 158°F) (non freezing)					
	Ambient humidity	85% RH max. (non condensing), storage: 90% RH max.(non condensing)					
	Atmosphere	Indoors (no direct sunligt); 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	0.78	1.5	2.1	0.78	1.5	2.1
	With brake	1.2	2.3	3.0	1.2	2.3	3.0

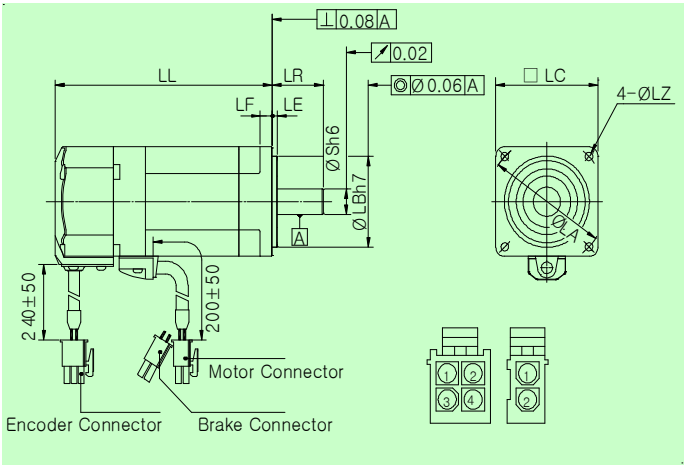
1. If used in location such as actual site of machinery where oil or water may influence the product, special specifications apply, contact KOMOTEK.
2. This specification is guaranted after combining and adjusting with the driver.
3. All ratings typical and at 20 ℃ unless otherwise noted.
4. Contact 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		KANQ		
Rated power [W]		100	200	400
LL	Standard	86	97	112
	With brake	118.5	132	147
LR		25	30	30
S		8	11	14
LA		70	90	90
LB		50	70	70
LC		60	80	80
LE		3	3	3
LF		7	8	8
LZ		5.5	6.6	6.6

Special specifications

Electromagnetic brake specifications

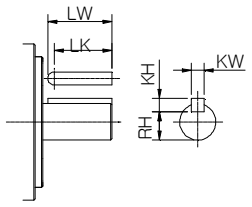
Series		KANQ		
Rated power [W]		100	200	400
Static friction torque	Nm	1.27	2.45	2.45
Response time	ms	50	60	60
Release time	ms	15	15	15
Rated voltage	V_{DC}	24	24	24
Rated current (A) at 20 ℃		0.36	0.43	0.43

Special shaft end specifications

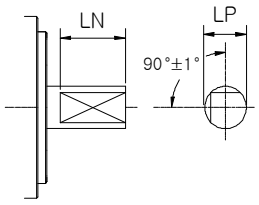
key & D-cut

Series	KANQ		
Rated power (W)	100	200	400
LW/LN(D-cut)	14/20	20/22	25/22
LK	12.5	18	22.5
KW	3 h9	4 h9	5 h9
KH	3	4	5
RH/LP(D-cut)	6.2/7.5	8.5/10	11/12.5

Key

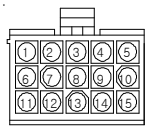
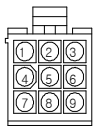


D-cut



Connector pin arrangement

Encoder connectors

Model		Wires	Part no.	Pin specifications									Outlines
KANQ-01~04	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				
		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	
	Abs. (17bit)	9	AMP/ 172169-1	Pin	1	2	3	4	5	6	7	8	9	
				Signal	BAT +	BAT -	FG	SD	$\overline{SD}$		+5V	0V		