

KAFZ series servo motor specifications

Servo motor series		KAFZ															
Flange size (mm)		40	60		80	40	60		80	40	60		80				
Model		01	02	04	08	01	02	04	06	01	02	04	06	08			
Specifications																	
Supply voltage (V)		200/220V _{ac}				24V _{dc}				48V _{dc}							
Continuous running duty	Rated output(W)	100	200	400	750	100	200	400	600	100	200	400	600	750			
	Rated torque(N·m)	0.32	0.64	1.3	2.4	0.32	0.64	1.3	1.9	0.32	0.64	1.3	1.9	2.4			
Maximum torque (N·m)		0.95	1.91	3.8	7.1	0.64	1.28	50.63	3.8	0.64	1.28	2.6	3.8	4.8			
Rated rotation speed(r/min)		3000															
Maximum rotation speed (r/min)		5000			4500	3500				4000							
Rated power rate (kW/s)		19.3	27.84	59.42	63.15	19.3	25.94	51.6	47.4	19.34	25.94	51.6	47.4	62.75			
Rated current (Arms)		1.17	1.6	2.68	4.2	6.4	12	25.3	30.7	3.6	6.4	12.6	19.3	24.2			
Momentary maximum current (Arms)		3.51	4.89	8.06	12.60	12.80	24.04	50.63	65.62	7.2	12.8	25.2	38.61	48.44			
Rotor inertia (×10 ⁻⁴ kg·m ²)	Standard	0.054	0.15	0.29	0.93	0.054	0.161	0.334	0.777	0.054	0.161	0.334	0.777	0.936			
	With brake	0.055	0.17	0.31	1.05	0.058	0.189	0.362	0.922	0.058	0.189	0.362	0.922	1.081			
Recommended load/motor inertia ratio		Less than 30-times the servo motor's inertia															
Structure		Totally enclosed non ventilated (protection level: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	1000 meters or less above sea level,49m/s ² below															
Insulation Class	Type	B															
	Permission Temperature (°C)	130°C below															
Weight (kg)	Standard	0.56	0.9	1.27	2.48	0.56	0.96	1.46	2.37	0.56	0.96	1.46	2.37	2.66			
	With brake	0.83	1.37	1.87	3.28	0.83	1.43	1.93	3.17	0.83	1.43	1.93	3.17	3.46			

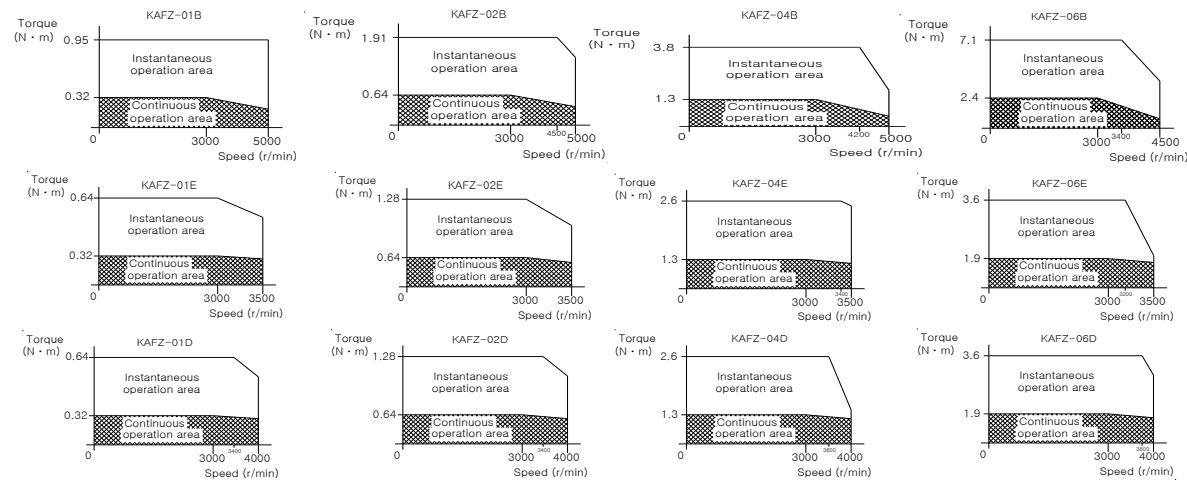
1. If used location such as an actual site of machinery where oil or water may influence the product, contacts KOMOTEK for apply special specifications.

2. This specification is guaranteed after combining and adjusting with the driver.

3. All rating 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.

KAFZ series servo motor torque characteristics



KAFQ series servo motor specifications

Servo motor series		KAFQ					
Flange size (mm)		60	80		60	80	
Model		01	02	04	01	02	04
Specifications							
Supply voltage (V _{DC})		24V			48V		
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)		0.64	1.28	2.6	0.64	1.28	2.6
Rated rotation speed(r/min)		3000					
Maximum rotation speed (r/min)		3500			4000		
Rated power rate (kW/s)		13.4	12.43	27.53	13.39	12.43	27.53
Rated current (Arms)		6.7	12.0	24.0	3.9	6.82	13.1
Momentary maximum current (Arms)		13.40	24.0	48.01	7.78	13.65	26.23
Rotor inertia ($\times 10^{-4}$ kg·m ²)	Standard	0.078	0.336	0.626	0.078	0.336	0.626
	With brake	0.106	0.343	0.771	0.106	0.343	0.771
Recommended load/motor inertia ratio		Less than 20-times the servo motor's inertia					
Structure		Totally enclosed non ventilated (protection level: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	1000 meters or less above sea level,49m/s ² below					
Insulation Class	Type	B					
	Permission Temperature (°C)	130°C below					
Weight (kg)	Standard	0.72	1.50	2.08	0.72	1.50	2.08
	With brake	1.19	2.30	2.88	1.19	2.30	2.88

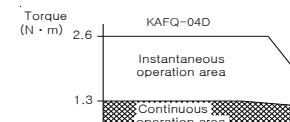
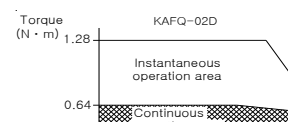
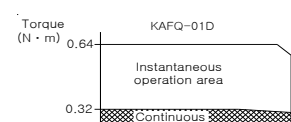
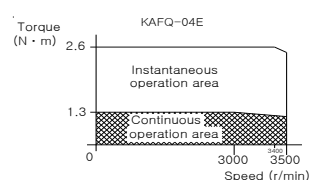
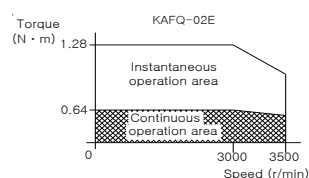
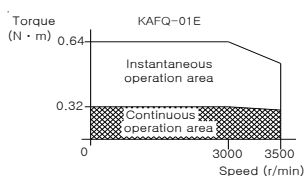
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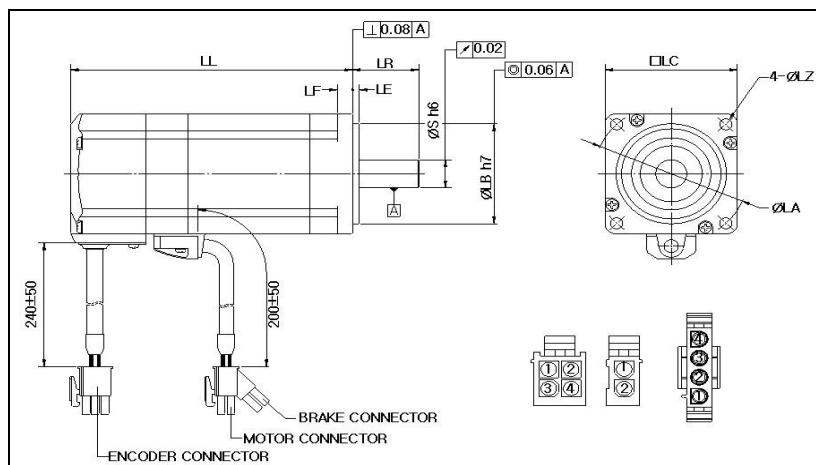
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KAFQ series servo motor torque characteristics



KAFZ/Q series



Specifications of motor/brake connector

Brake		Standard			with Brake		
Part no.		AMP/172167-1	480702	MS 3102A 22-22P	AMP/ 172167-1 AMP/ 172165-1	480702 172165-1	MS 3102A 24-11P
Pin spec	Signal	Pin.No	Pin.No	Pin.No	Pin.No	Pin.No	Pin.No
	U	1	4	A	1	4	D
	V	2	3	B	2	3	E
	W	3	2	C	3	2	F
	FG	4	1	D	4	1	G
	BR				1	1	A
					2	2	B

Series		KAFZ									KAFQ		
Supply voltage		220V _{AC}				24/48V _{DC}					24/48V _{DC}		
Model		01	02	04	08	01	02	04	06	08	01	02	04
LL	Standard	133.5	123.5	143.5	162	133.5	131.5	157.5	162	170	107.5	134	149
	With brake	163	159	179	196	163	167	193.5	196	204	143	168	183
LR		25	30	30	35	25	30	30	35	35	30	35	35
S		8	11	14	19	8	11	14	16	19	8	11	14
LA		45	70	70	90	45	70	70	90	90	70	90	90
LB		30	50	50	70	30	50	50	70	70	50	70	70
LC		40	60	60	80	40	60	60	80	80	60	80	80
LE		3	3	3	3	3	3	3	3	3	3	3	3
LF		3.5	6	6	8.5	3.5	6	6	8.5	8.5	6	8.5	8.5
LZ		3.6	5.2	5.2	6.6	3.6	5.2	5.2	6.6	6.6	5.2	6.6	6.6