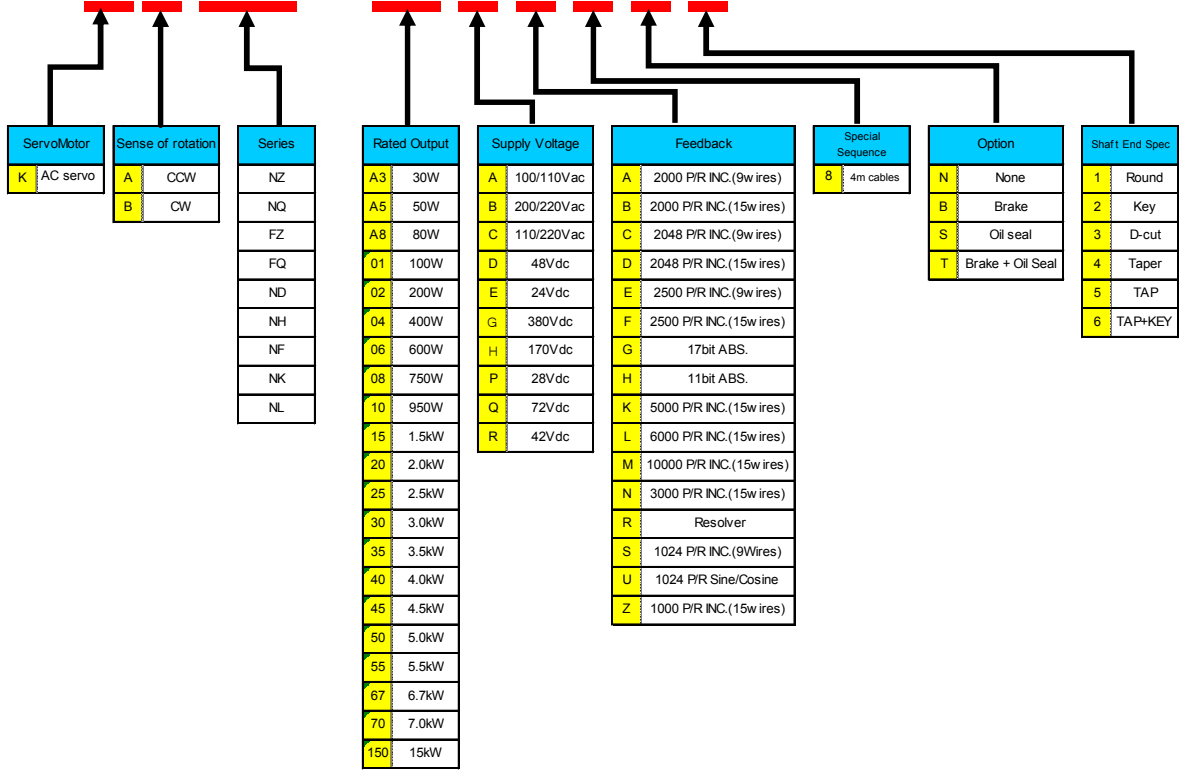


Model configurations

K A N Z - 02 B F 8 N 2



Encoder specification

(1) 2500 C/T Incremental Encoder

Item	Specifications		Remark
Encoder Type	KBY-2500-5MD KBY-2500-5ME		
Resolution	2500 C/T		
Supply Voltage	DC +5V ±5%		
Sink/Source Current	±20mA Max		
Output Circuit	Line Driver, AM26LS31		
Frequency Response	200kHz Max		
Rise / Fall time	200 nsec. Max		
Moment of Inertia	$10 \times 10^{-7} \text{ kg} \cdot \text{m}^2$		
Maximum Rotating Speed	6,000 r/min		
Maximum Rotating Speed	6,000 r/min		
Mounting Tolerance	Radial	0.05mm TIR Max	
	Angular	0.1°	
Operating Temp. Range	-10°C ~ +85°C		
Storage Temp. Range	-20°C ~ +85°C		
Protective Construction	Not Enclosed		
Vibration	1.5mm, 5~40Hz (for 2 hours each of X,Y,Z direction)		
Shock	490m/s ² , 11msec (3 times each of X,Y,Z direction)		
Mass	150g Max		

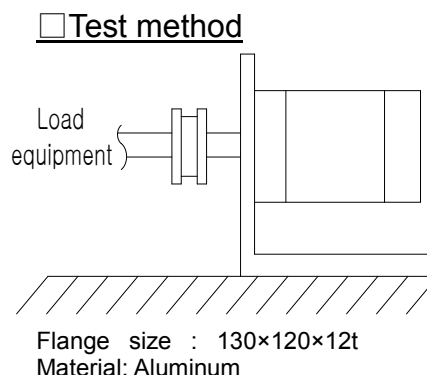
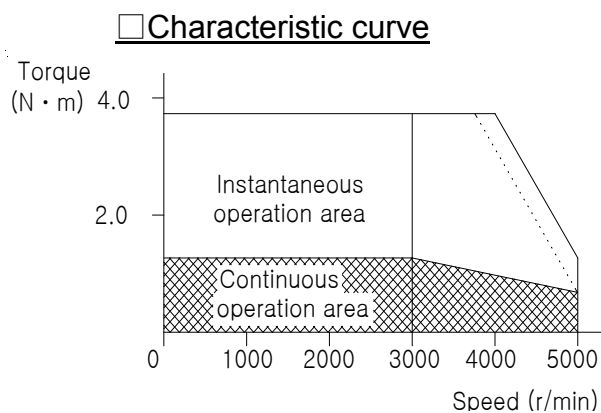
Detail specifications

DATE	Type	Specification	Drawing No.	Remark
2014.03.02	KANZ-02BF8N2	KMDS 10446	10000595	Normal
2014.03.02	KANZ-04BF8N2	KMDS 10446	10000596	Normal
2014.03.02	KANZ-06BF8N2	KMDS 10446	10000597	Normal
2014.03.02	KANZ-08BF8N2	KMDS 10446	10000598	Normal
2014.03.02	KANZ-10BF8N2	KMDS 10446	10000599	Normal

AC Servo Motor Specifications

Item	Unit	KANZ-02BF8N2	Remarks
Flange size	mm	60	
Rated output	W	200	
Continuous Running Duty	%	100	
No. of poles		8	
Rated speed	r/min	3000	
Maximum speed	r/min	5000	
Rated torque	N·m	0.64	
	kgf·cm	6.5	
Maximum torque	N·m	1.91	
	kgf·cm	19.5	
Rated current	$A_{(rms)}$	1.6	±10%
Rotor inertia	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	0.19	
	$\text{gf} \cdot \text{cm} \cdot \text{sec}^2$	0.19	
Elec. time constant	ms	3.4	
Mech. Time constant	ms	0.85	
Rated power rate	kW/s	22	
Momentary maximum current	$A_{(o-p)}$	6.89	±10%
Back EMF constant per phase	$\times 10^{-3} V_{(rms)}/\text{min}^{-1}$	14.8	±10%
Torque constant	$\text{N} \cdot \text{m}/A_{(rms)}$	0.42	±10%
	$\text{kgf} \cdot \text{cm}/A_{(rms)}$	4.28	±10%
Phase resistance	Ω	2.3	±10%
Phase inductance	mH	7.8	±20%
Insulation class		B	
Vibration class		V-15	
Paint color		Black	
Weight	kg	1.0	
Oil seal		X	
Brake		O	
Structure		Totally-enclosed self-cooled	
Supply voltage	V DC	200/220	

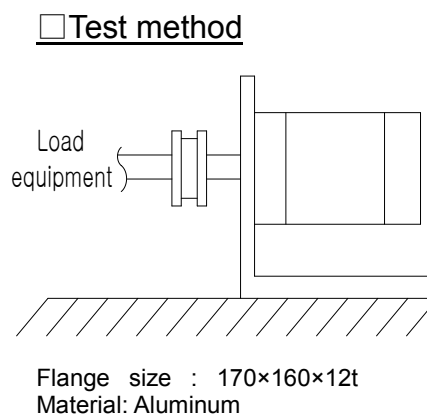
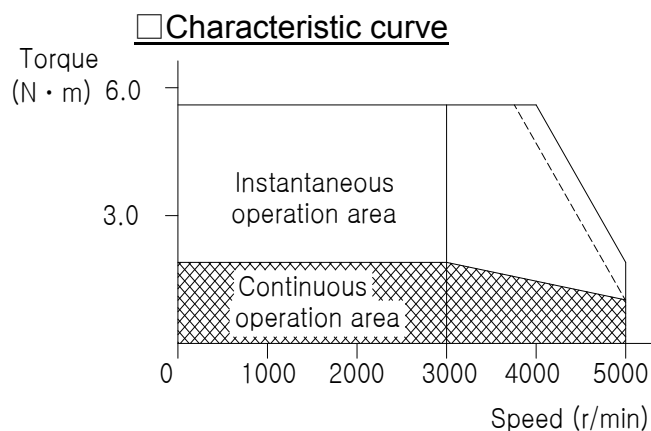
1. These values are representative of the ideal sinusoidal operating conditions of the motors.
(at ambient temperature 20°C)
2. IP class of these motors are IP65 without connectors.
3. Rated torque is the allowable continuous torque value when measured in the conditions shown below.



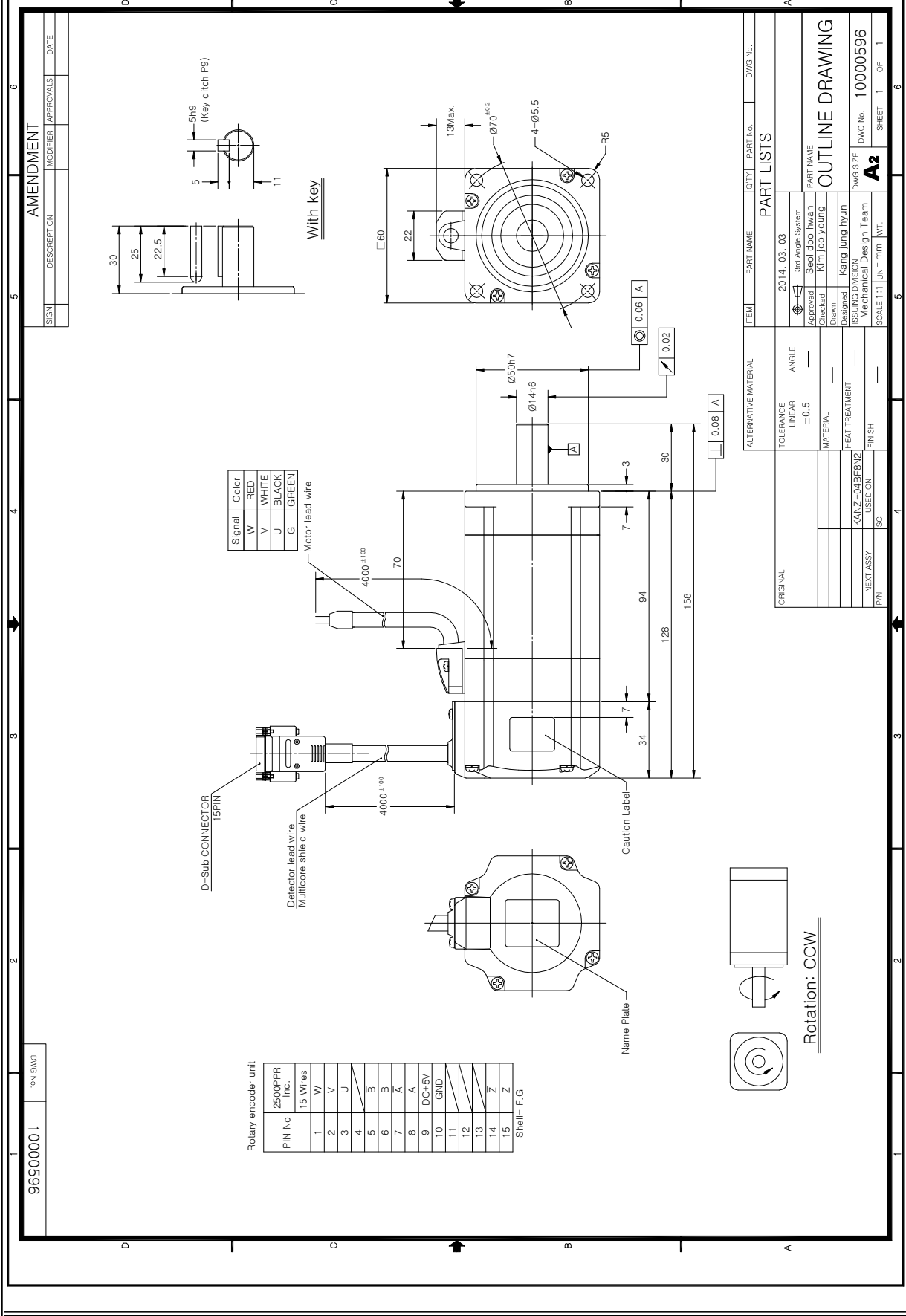
AC Servo Motor Specifications

Item	Unit	KANZ-04BF8N2	Remarks
Flange size	mm	60	
Rated output	W	400	
Continuous Running Duty	%	100	
No. of poles		8	
Rated speed	r/min	3000	
Maximum speed	r/min	5000	
Rated torque	N·m	1.3	
	kgf·cm	13	
Maximum torque	N·m	3.8	
	kgf·cm	39	
Rated current	$A_{(rms)}$	2.5	±10%
Rotor inertia	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	0.33	
	$\text{gf} \cdot \text{cm} \cdot \text{sec}^2$	0.34	
Elec. time constant	ms	3.5	
Mech. Time constant	ms	0.57	
Rated power rate	kW/s	52.2	
Momentary maximum current	$A_{(o-p)}$	10.5	±10%
Back EMF constant per phase	$\times 10^{-3} V_{(rms)}/\text{min}^{-1}$	19.0	±10%
Torque constant	$\text{N} \cdot \text{m}/A_{(rms)}$	0.54	±10%
	$\text{kgf} \cdot \text{cm}/A_{(rms)}$	5.51	±10%
Phase resistance	Ω	1.46	±10%
Phase inductance	mH	5.1	±20%
Insulation class		B	
Vibration class		V-15	
Paint color		Black	
Weight	kg	1.7	
Oil seal		X	
Brake		O	
Structure		Totally-enclosed self-cooled	
Supply voltage	V DC	200/220	

1. These values are representative of the ideal sinusoidal operating conditions of the motors.
(at ambient temperature 20°C)
2. IP class of these motors are IP65 without connectors.
3. Rated torque is the allowable continuous torque value when measured in the conditions shown below.



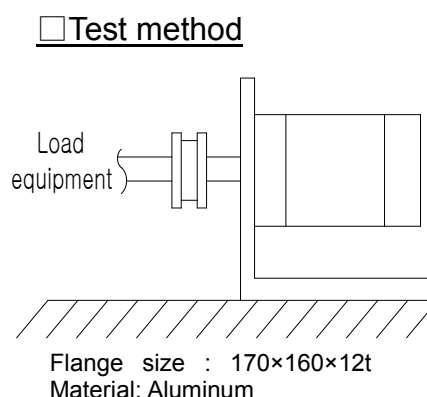
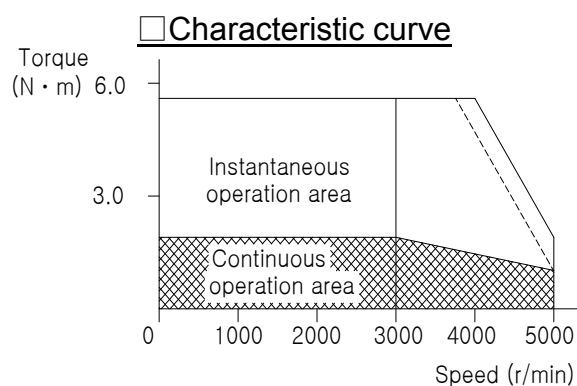
KANZ-04BF8N2 (Brake Model Outline Drawing)



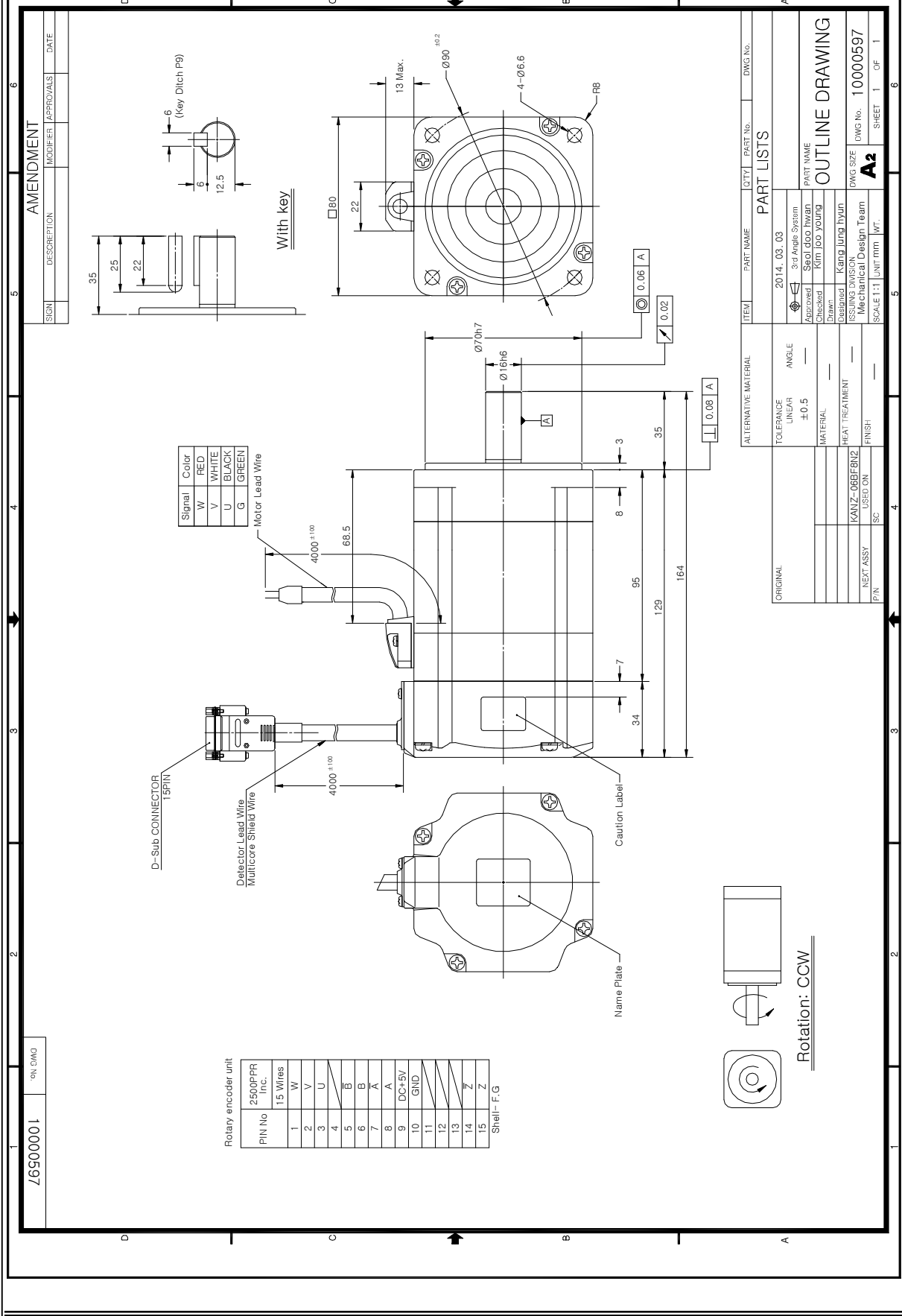
AC Servo Motor Specifications

Item	Unit	KANZ-06BF8N2	Remarks
Flange size	mm	80	
Rated output	W	600	
Continuous Running Duty	%	100	
No. of poles		8	
Rated speed	r/min	3000	
Maximum speed	r/min	5000	
Rated torque	N·m	1.91	
	kgf·cm	19.49	
Maximum torque	N·m	5.73	
	kgf·cm	58.47	
Rated current	$A_{(rms)}$	4.1	±10%
Rotor inertia	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	0.93	
	$\text{gf} \cdot \text{cm} \cdot \text{sec}^2$	0.95	
Elec. time constant	ms	7.3	
Mech. Time constant	ms	0.46	
Rated power rate	kW/s	40	
Momentary maximum current	$A_{(o-p)}$	17.4	±10%
Back EMF constant per phase	$\times 10^{-3} V_{(rms)}/\text{min}^{-1}$	18.7	±10%
Torque constant	$\text{N} \cdot \text{m}/A_{(rms)}$	0.54	±10%
	$\text{kgf} \cdot \text{cm}/A_{(rms)}$	5.5	±10%
Phase resistance	Ω	0.41	±10%
Phase inductance	mH	3	±20%
Insulation class		B	
Vibration class		V-15	
Paint color		Black	
Weight	kg	2.9	
Oil seal		X	
Brake		X	
Structure		Totally-enclosed self-cooled	
Supply voltage	V DC	200/220	

1. These values are representative of the ideal sinusoidal operating conditions of the motors.
(at ambient temperature 20°C)
2. IP class of these motors are IP65 without connectors.
3. Rated torque is the allowable continuous torque value when measured in the conditions shown below.



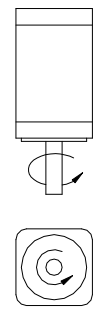
KANZ-06BF8N2 (Normal Model Outline Drawing)



Signal	Color
W	RED
V	WHITE
U	BLACK
G	GREEN

PIN No	2500PPR Inc.	15 Wires
1	W	
2	V	
3	U	
4		
5	B	
6	B	
7	A	
8	A	
9	DC+5V	
10	GND	
11		
12		
13		
14	Z	
15	Z	

Shell- F, G



Rotation: CCW

ITEM	PART NAME	QTY	PART No.	DWG No.
PART LISTS				
1	2014. 03. 03			
2	3rd Angle System			
3	Seol Goo Hwan			
4	Kim Joo Young			
5	Kim Joo Young			
6	Kim Joo Young			
7	Kim Joo Young			
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100	Kim Joo Young			

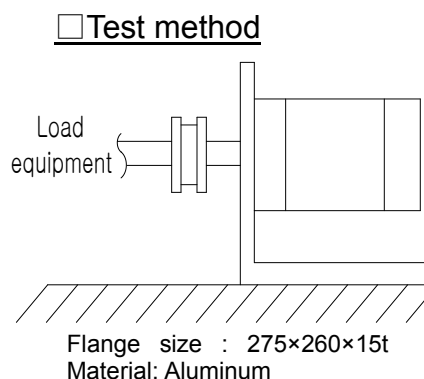
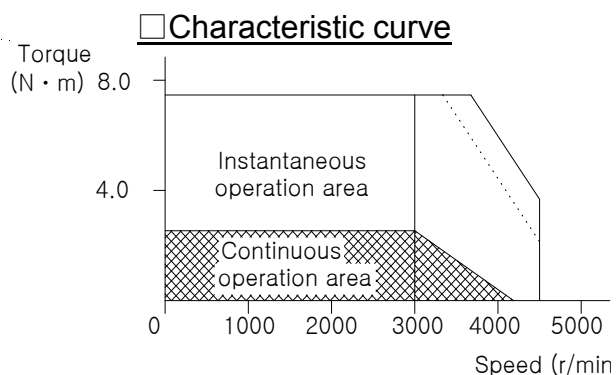
OUTLINE DRAWING

DWG No. 10000597
 SCALE 1:1 UNIT mm
 SHEET 1 OF 1

AC Servo Motor Specifications

Item	Unit	KANZ-08BF8N2	Remarks
Flange size	mm	80	
Rated output	W	750	
Continuous Running Duty	%	100	
No. of poles		8	
Rated speed	r/min	3000	
Maximum speed	r/min	4500	
Rated torque	N·m	2.4	
	kgf·cm	24.3	
Maximum torque	N·m	7.1	
	kgf·cm	73	
Rated current	A _(rms)	4.3	±10%
Rotor inertia	×10 ⁻⁴ kg·m ²	1.20	
	gf·cm·sec ²	1.22	
Elec. time constant	ms	7.4	
Mech. Time constant	ms	0.45	
Rated power rate	kW/s	48.9	
Momentary maximum current	A(o-p)	18.3	±10%
Back EMF constant per phase	×10 ⁻³ V _(rms) /min ⁻¹	22.0	±10%
Torque constant	N·m/A _(rms)	0.63	±10%
	kgf·cm/A _(rms)	6.42	±10%
Phase resistance	Ω	0.43	±10%
Phase inductance	mH	3.2	±20%
Insulation class		B	
Vibration class		V-15	
Paint color		Black	
Weight	kg	3.5	
Oil seal		X	
Brake		O	
Structure		Totally-enclosed self-cooled	
Supply voltage	V DC	200/220	

1. These values are representative of the ideal sinusoidal operating conditions of the motors.
(at ambient temperature 20°C)
2. IP class of these motors are IP65 without connectors.
3. Rated torque is the allowable continuous torque value when measured in the conditions shown below.

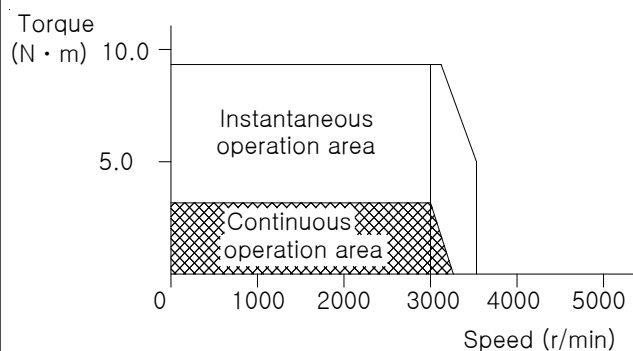


AC Servo Motor Specifications

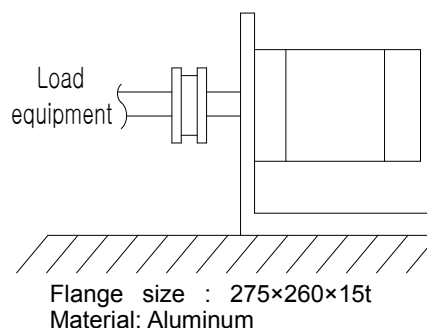
Item	Unit	KANZ-10BF8N2	Remarks
Flange size	mm	80	
Rated output	W	950	
Continuous Running Duty	%	100	
No. of poles		8	
Rated speed	r/min	3000	
Maximum speed	r/min	3500	
Rated torque	N·m	3	
	kgf·cm	30.9	
Maximum torque	N·m	9.1	
	kgf·cm	92.6	
Rated current	$A_{(rms)}$	4.3	±10%
Rotor inertia	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	1.47	
	$\text{gf} \cdot \text{cm} \cdot \text{sec}^2$	1.5	
Elec. time constant	ms	7.6	
Mech. Time constant	ms	0.39	
Rated power rate	kW/s	62.4	
Momentary maximum current	$A_{(o-p)}$	18.3	±10%
Back EMF constant per phase	$\times 10^{-3} V_{(rms)} / \text{min}^{-1}$	27	±10%
Torque constant	$\text{N} \cdot \text{m} / A_{(rms)}$	0.77	±10%
	$\text{kgf} \cdot \text{cm} / A_{(rms)}$	7.9	±10%
Phase resistance	Ω	0.46	±10%
Phase inductance	mH	3.5	±20%
Insulation class		B	
Vibration class		V-15	
Paint color		Black	
Weight	kg	4.1	
Oil seal		X	
Brake		O	
Structure		Totally-enclosed self-cooled	
Supply voltage	V DC	200/220	

1. These values are representative of the ideal sinusoidal operating conditions of the motors.
(at ambient temperature 20°C)
2. IP class of these motors are IP65 without connectors.
3. Rated torque is the allowable continuous torque value when measured in the conditions shown below.

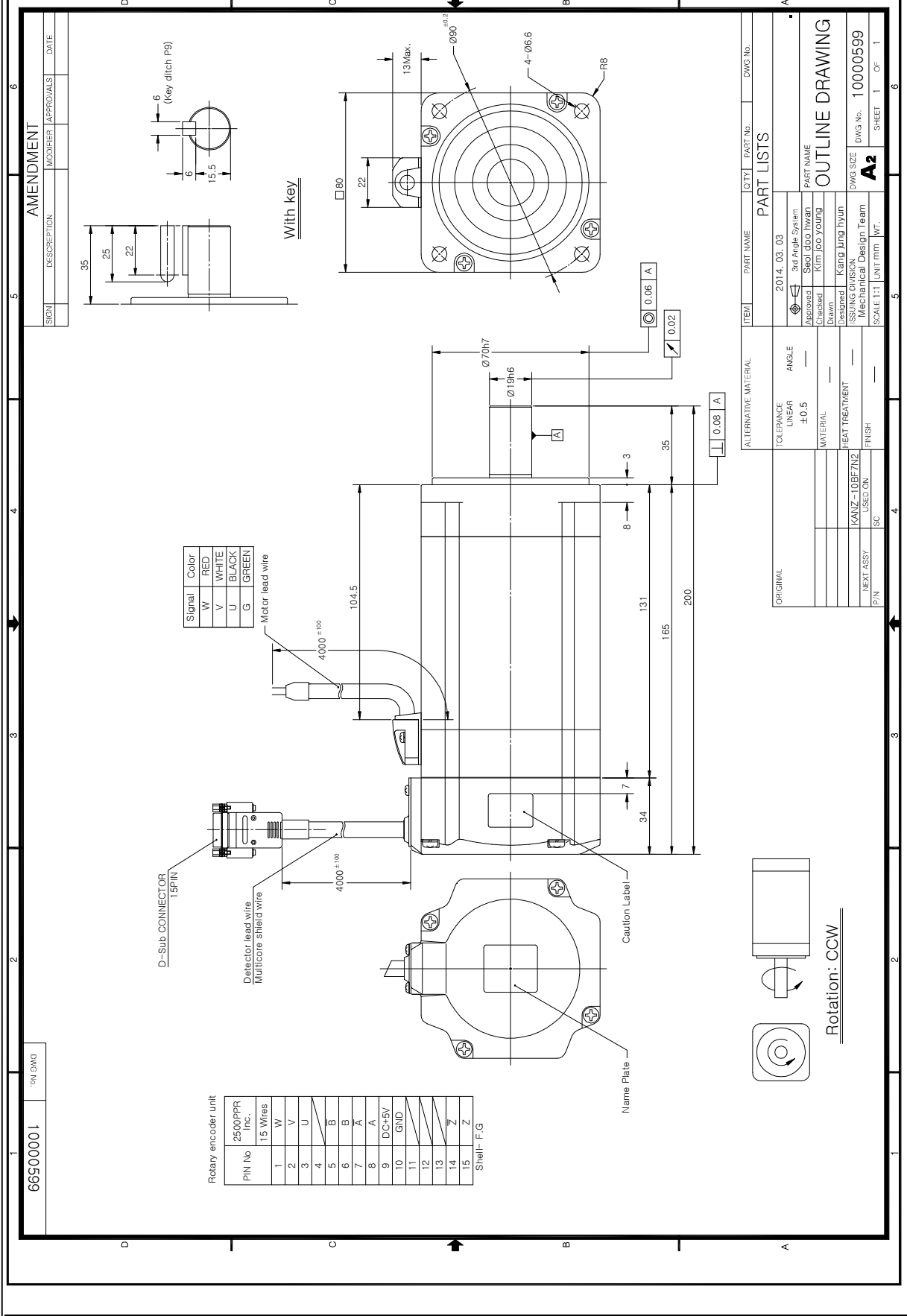
□ Characteristic curve



□ Test method



KANZ-10BF8N2 (Normal Model Outline Drawing)



SIGN	DESCRIPTION	MODIFIER	APPROVALS	DATE

AMENDMENT

66S00001	10000599
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2500PPR Inc.
15 Wires
1 W
2 V
3 U
4 B
5 B
6 B
7 A
8 A
9 DC+5V
10 GND
11
12
13
14 Z
15 Z
Shield- F.G

Signal	Color
W	RED
V	WHITE
U	BLACK
G	GREEN

ORIGINAL	ANGLE
TOLERANCE LINEAR ±0.5	
MATERIAL	
HEAT TREATMENT	
FINISH	
USED ON	
SC	

2014. 03. 03	3rd Angle System	Seol Goo Hyun	Kim Joo Young	Kang Jung Hyun	ISSUING DIVISION	Design Team	DWG No. 10000599	A2	SHEET 1 OF 1
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PART NAME	QTY	PART No.	DWG No.
2014. 03. 03			

Rotation: CCW

SCALE 1:1 UNIT:mm

ISSUING DIVISION Mechanical Design Team

SCALE 1:1 UNIT:mm

SCALE 1:1 UNIT:mm

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