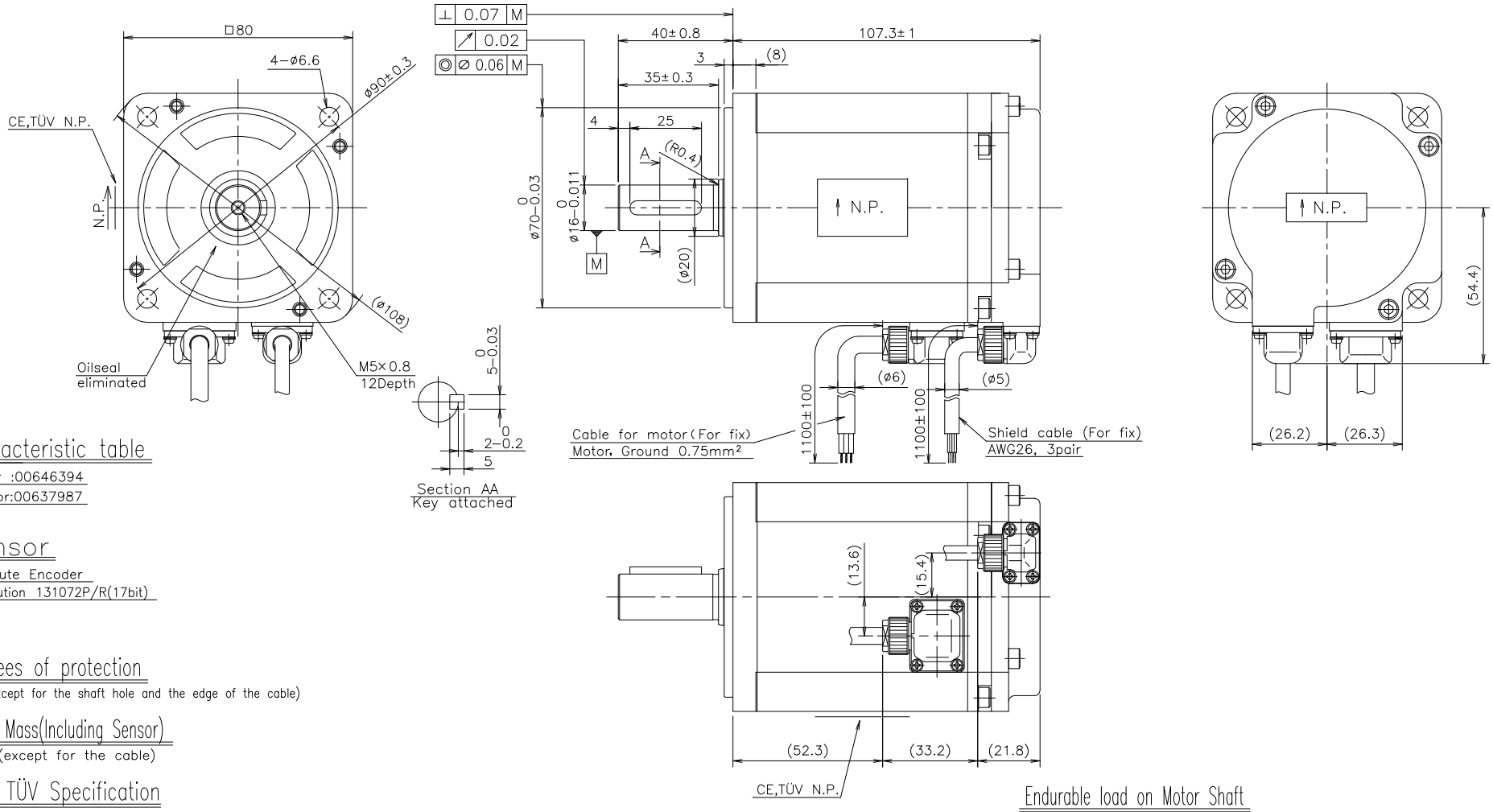


Characteristic table

Motor :00646394
Sensor:00637987

Sensor

Absolute Encoder
Resolution 131072P/R(17bit)

Degrees of protection

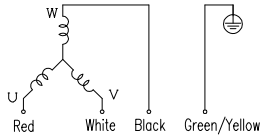
IP67(except for the shaft hole and the edge of the cable)

Motor Mass(Including Sensor)

2.6kg(except for the cable)

UL , TÜV Specification

Connection



Direction of rotation is C.C.W for phase sequence UVW, as seen from front shaft.

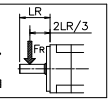
Sensor

Signal	Color	Pair
+DC 5V	Red	
0V	Black	
ES+	Brown	
ES−	Blue	

1pair (color: Pink and Purple) is not use.

Endurable load on Motor Shaft

Assembling			Operation			
Radial play(N)	Thrust play(N)		Radial play(N)	Thrust play(N)		
FR	F	F1	FR	F	F1	
590	390	390	340	200	200	F ➡ F1 ⬅



A	1st EDITION BY J.OOSAWA	08−01−10	REFERENCE ONLY J.OOSAWA 08−01−10	3521

SERVO MOTOR
OUTLINE DRAWINGS
R2AA08075FXH11M

00679125 A

00679125

1. Characteristics of Motor

Terms	Item	Symbol	Unit	Specification
	Drive	—	———	Sine Wave
	Amplifier power supply	—	———	AC200V~AC230V +10% -15% 50/60Hz±3Hz 3phase
	Cooling Method	—	———	Totally Enclosed
	Exciting Method	—	———	Permanent Magnet
	Rated	—	———	Cont.
	Number of pole	—	———	10
☆☆	Rated Output	P_R	kW	0.75
☆☆	Rated Torque	T_R	N・m	2.39
☆☆	Continuous Stall Torque	T_S	N・m	2.55
☆☆	Peak Stall Torque	T_P	N・m	8.5
☆☆	Rated Speed	N_R	min^{-1}	3000
☆☆	Maximum Speed	N_{max}	min^{-1}	6000
☆☆	Rated Current	I_R	Arms	4.6
☆☆	Continuous Stall Current	I_S	Arms	4.6
☆☆	Peak Armature Current	I_P	Arms	15.5
☆	Torque Constant	K_T	N・m/Arms	0.559± 10%
☆	Voltage Constant	$K_{E\phi}$	mV/min^{-1}	19.5± 10%
	Rotor inertia	J_M	$kg・m^2(GD^2/4)$	1.82×10^{-4}
☆☆	Rated Power Rate	Q_R	kW/s	31
☆	Resistance	R_ϕ	Ω	0.4
☆	Inductance	L_ϕ	mH	1.2
☆	Mech.Time Constant	tm	ms	0.70
☆	Elect.Time Constant	te	ms	3.0
	Insulation Class	—	———	F
	Vibration Class	—	———	V15
☆☆	Max.temperature Rise	θ	K	110(Resistance method)
	Insulation Resistance	—	MΩ	10MIN.(DC500V megger)
	Dielectric Strength	—	V	1500(AC 1min)

2. Environmental Condition

Item	Operation	Storage
Temperature(℃)	0~40	−20~65
Humidity(%)	20~90	20~90
	No dew condensation required	
Vibration (m/s^2)	24.5(Single amplitude)	
Shock (m/s^2)	98(Single amplitude),Twice	

Note.1. ☆☆ indicates motor temperature rise saturation point combined with Amplifire ☆ indicates coil temperature at 20℃.
All values are at typical anes.
2. The ratings measured by alminum heat sink size 250×250×6t.
3. Total rotor inertia shall be add respectivery.
4. Fig.1 is a value when motor temperature rise saturation point combined with Amplifire at AC200V.

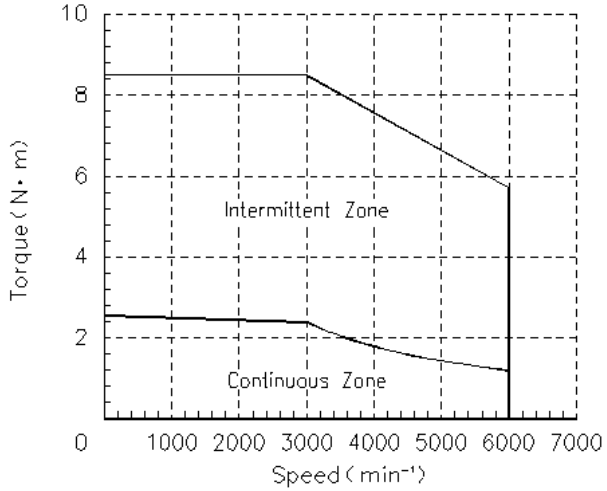


Fig.1 Torque-Speed characteristics(Note.4)

REV.	記事 DESCRIPTION	日付 DATE
B	E0094259	08-10-31
A	1st EDITION BY J.OOSAWA	07-01-18

単位 UNIT: mm
尺度 SCALE:

承認 APPROVED BY: K.Yamaura 08-11-04
審査 CHECKED BY: N.Kayashi 08-11-04
設計 DESIGNED BY: J.OOSAWA 08-10-31

品目分類記号: 3521

名称 TITLE: Motor Characteristics R2AA08075FX*

山洋電気株式会社
SANYO DENKI CO.,LTD.

図番 DWG NO.: 00646394 REV. B

A3G-F1

00646394