

S-U400 General Specification

(IT IS NOT A GUARANTEED DATA.)

Update Number

200324-01

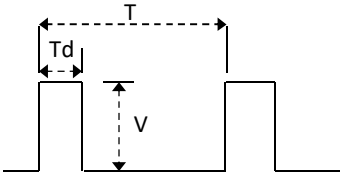
FEATURES

- Programmable and compatible with S.Bus and S.Bus2 systems.
- Can be connected to a PC using the CIU-2/-3 USB adapter sold separately.

APPLICATIONS

- For universal



Item		Specification			Remark	
1	Communication Interface	PWM			Signal Voltage:V	HIGH : min. 2.0V max. Vcc
						LOW : min. 0.0V max. 0.45V
					Frame Rate:T	3.0~30ms (Default 14.25ms)
					Left/Center/Right:Td	2120/1520/920 μ s (Resolution recommends less than 1 μ s.)
						
			S.BUS			Futaba Serial Protocol (Please ask us for more information.)
2	Rated Voltage	DC 6.0~DC 7.4V			—	
3	Operating Voltage	DC 4.8~DC 8.4V			—	
4	Standby Current	≤ 20mA			at 6.0~7.4V	
5	Consumption Current*	170		mA	at 7.4V , No-Load	
6	Max. Torque*	7.9		kgf-cm	at 7.4V	
		0.8		N-m		
		109.7		oz-in		
7	Rated Torque*	1.6		kgf-cm	at 7.4V 20% of Max. Torque	
		0.15		N-m		
		21.9		oz-in		
8	No Load Speed*	0.13		s/60°	at 7.4V	
		461.5		°/s		
		76.9		rpm		
9	Default Travel Angle	CW 60° (920μs) CCW 60° (2120μs)			—	
10	Max Travel Angle	CW 90° (920μs) CCW 90° (2120μs)			Programing tool (CIU-2 or CIU-3,S-Link) required.	
11	Mechanical Angle	200°			—	
12	Dead Band	4μs			—	
13	BackLash*	≤ 0.7°			—	
14	Operating Temperature Range	-10~+45°C (14~113°F)			—	
15	Storage Temperature Range	-20~+60°C (-4~140°F)			—	
16	Outer Dimension	40.0 x 20.0 x 38.1mm (1.57 x 0.78 x 1.50 in)			—	
17	Weight	39g (1.38oz)			—	
18	Motor Type	Cored motor			—	
19	Position Sensor	Potentiometer			—	
20	Case Material	Upper,Middle,Bottom : Resin			—	
21	Gear Set Material	1st,2nd,3rd,4th(Final) : Resin			—	
22	Horn Gear Spline	25-teeth/φ6			—	
23	Cable	Non-Shielded Cable			Cable Length : 11.81 inch (300mm)	
24	Connector	Manufacture	J.A.M. Co., Ltd.			
		Type	FC25-03HG **			
		Mating	FC25-03M ** etc.			
		Pin Assignment	1	White	PWM/S.BUS	
			2	Red	Vcc	
			3	Black	GND	

* At 23 $\pm$ 5°C (Initial Performance Data)

** Custom connector. If necessary, Please use the extension cord sold from Futaba.

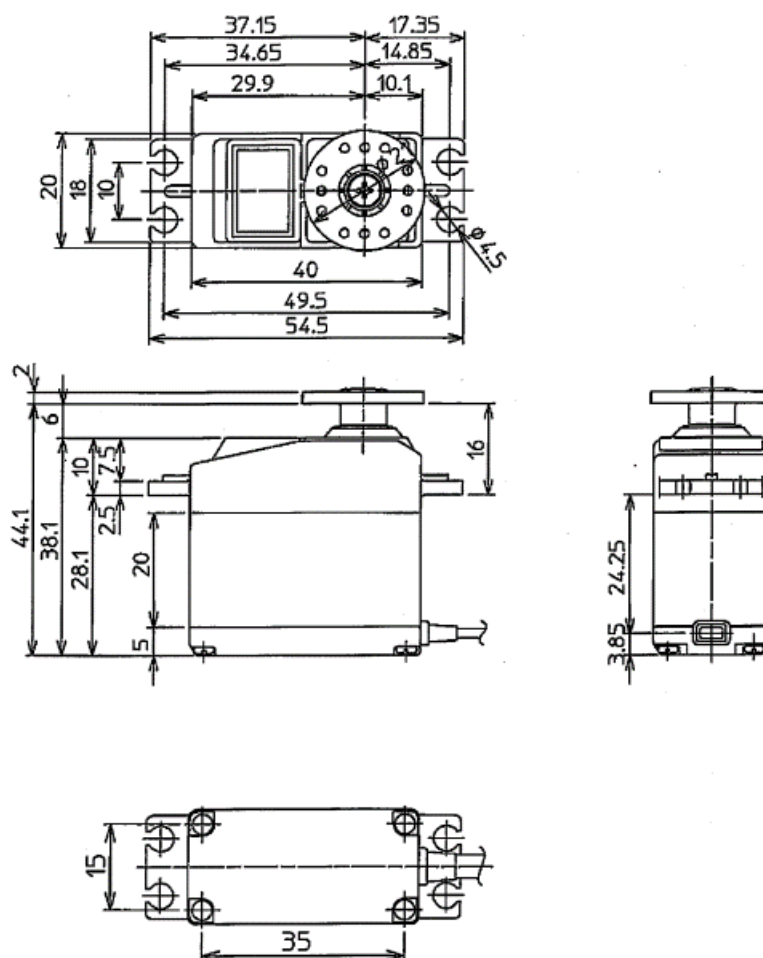
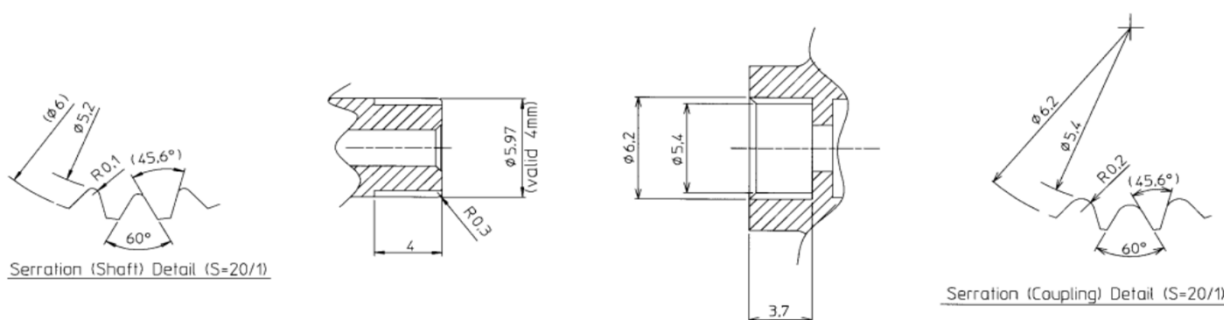
Caution

This product **SHOULD NOT** been used for the devices that is directly related to human life and/or harmful devices for human body such as below applications.

(1)Medical Devices

(2)Aerospace/Aviation Related Devices

(3)Nuclear Related Devices e.t.c.

Outer Dimension
S-U400

Servo Serration


Trigonous Teeth Serration 5.2 x 6.2		
	Shaft	Coupling
Angle of Serration	60°	60°
Number of Teeth	25	25
Shaft Addendum Circle	$\phi 6$	-----
Shaft Dedendum Circle	$\phi 5.2$	-----
Coupling Addendum Circle	-----	$\phi 5.4$
Coupling Dedendum Circle	-----	$\phi 6.2$
Over Pin Diameter	6.488 (Pin Diameter $\phi 0.5$)	5.008 (Pin Diameter $\phi 0.4$)

Unit(mm)