

S-U300 General Specification

Update Number
191010-01

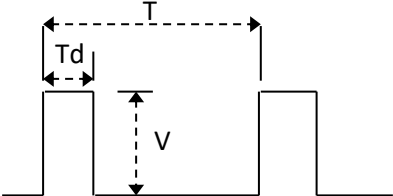
FEATURES

- 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 4.8~DC 6.0V			—	
3	Operating Voltage	DC 4.0~DC 6.0V			—	
4	Standby Current	≤ 20 mA			at 6.0V	
5	Consumption Current*	100	mA	at 6.0V , No-Load		
6	Starting Current	600	mA	at 6.0V		
7	Max. Torque*	4.1	kgf-cm	at 6.0V		
		0.4	N-m			
		56.9	oz-in			
8	Rated Torque*	0.8	kgf-cm	at 6.0V 20% of Max. Torque		
		0.08	N-m			
		11.4	oz-in			
9	No Load Speed*	0.19	s/60°	at 6.0V		
		315.8	°/s			
		52.6	rpm			
10	Default Travel Angle	CW 60° (920 μ s) CCW 60° (2120 μ s)			—	
11	Max Travel Angle	CW 90° (920 μ s) CCW 90° (2120 μ s)			Programing tool (CIU-2 or CIU-3,S-Link) required.	
12	Mechanical Angle	200°			—	
13	Dead Band	4 μ s			—	
14	BackLash*	$\leq 0.7^\circ$			—	
15	Operating Temperature Range	-10~+45°C (14~113°F)			—	
16	Storage Temperature Range	-20~+60°C (-4~140°F)			—	
17	Outer Dimension	40.4 x 19.8 x 36.0mm (1.59 x 0.78 x 1.42 in)			—	
18	Weight	36g (1.27oz)			—	
19	Ball Bearing	—			—	
20	Motor Type	Cored motor			—	
21	Position Sensor	Potentiometer			—	
22	Case Material	Upper,Middle,Bottom : PP			—	
23	Gear Set Material	1st,2nd,3rd,4th(Final) : POM			—	
24	Horn Gear Spline	25-teeth/ ϕ 6			—	
25	Cable	Non-Shielded Cable			Cable Length : 11.81 inch (300mm)	
26	Connector Wire Gauge	Equivalent to AWG23				
27	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	

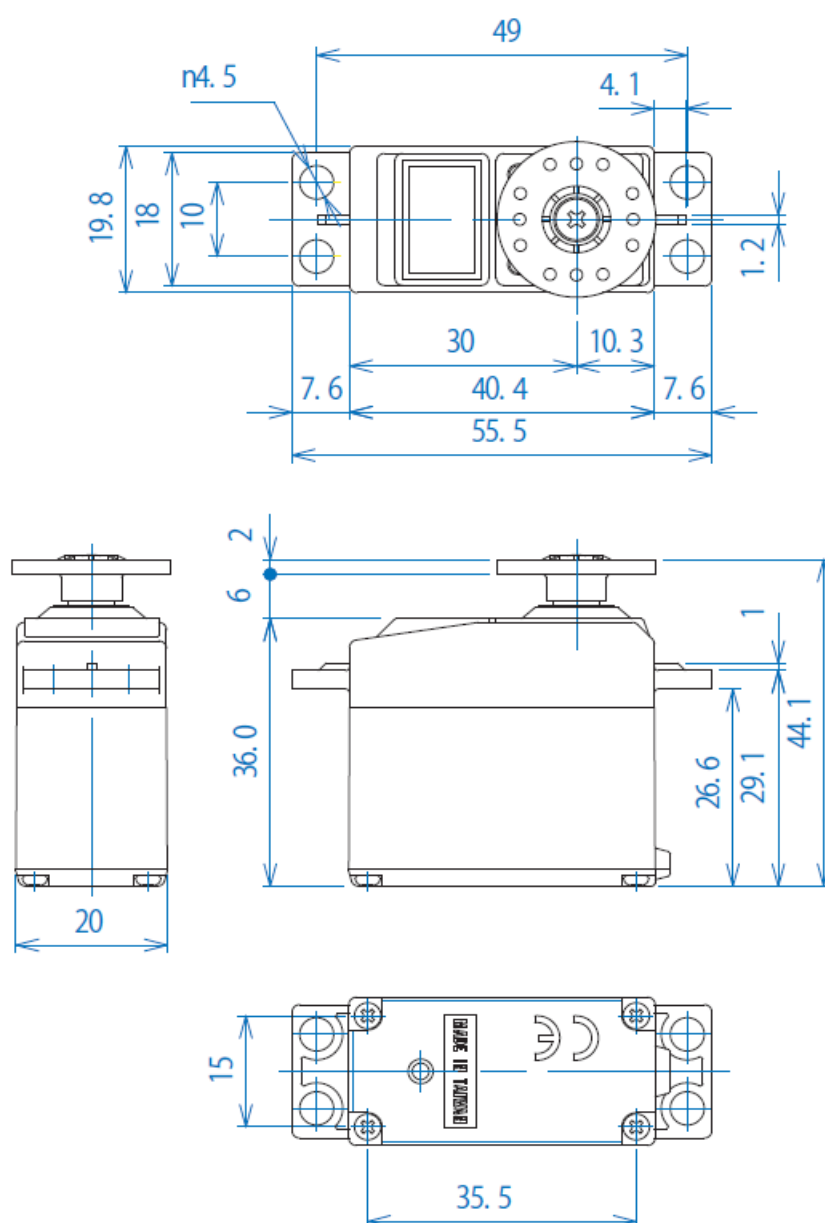
* At 23 $\pm$ 5°C (Initial Performance Data)

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

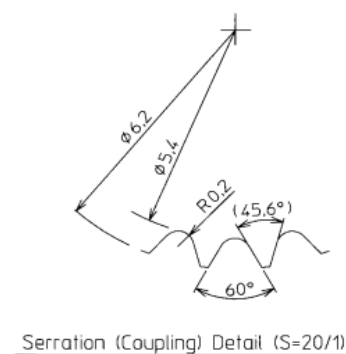
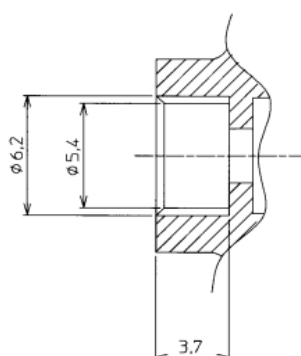
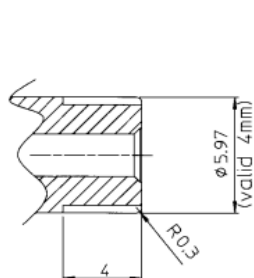
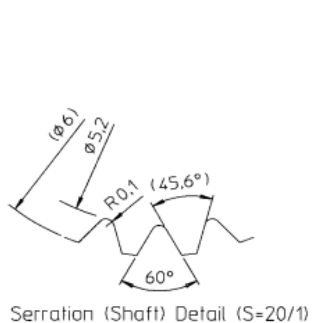
Outer Dimension

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191009-01

S-U300



Servo Serration



Trigonous Teeth Serration 5.2 x 6.2		
	Shaft	Coupling
Angle of Sarration	60°	60°
Number of Teeth	25	25
Shaft Addendum Circle	ø6	-----
Shaft Dedendum Circle	ø5.2	-----
Coupling Addendum Circle	-----	ø5.4
Coupling Dedendum Circle	-----	ø6.2
Over Pin Diameter	6.488 (Pin Diameter ø0.5)	5.008 (Pin Diameter ø0.4)

Unit(mm)