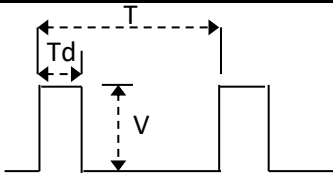
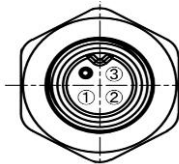
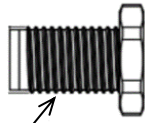
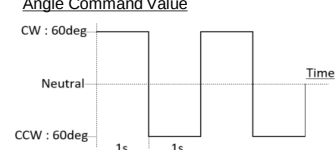


BLA15-06H-AA1 Technical Specification

	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)
						CW/Center/CCW:Td	920/1520/2120μs (Resolution recommends less than 1μs.)
							
		S.BUS / S.BUS2				Futaba Serial Protocol (Please ask us for more information.)	
2	International Protection Code	IP67				Waterproof and dustproof	
3	Rated Voltage	DC 6.0~DC 7.4V				—	
4	Operating Voltage	DC 4.0~DC 8.4V				—	
5	Standby Current	≤ 50mA				at 6.0~7.4V	
6	Starting Current*	≤ 2.6A				at 7.4V	
7	Consumption Current*	LL	Me	UL	unit	at 7.4V , No-Load	
		115	230	345	mA	LL : Low Limit Me : Medium Value UL : Upper Limit	
8	Max. Torque*	LL	Me	UL	unit	at 7.4V	
		7.2	10.3	13.4	kgf·cm		
		0.7	1.0	1.3	N·m		
		100.0	143.0	186.1	ozf·in		
		8.3				kgf·cm	at 6.0V Medium Value
9	Rated Torque*	1.0			kgf·cm	at 7.4V 10% of Max. Torque	
		0.10			N·m		
		14.3			ozf·in		
10	No Load Speed*	LL	Me	UL	unit	at 7.4V	
		0.12	0.15	0.18	s/60°		
		333	400	500	°/s		
		56	67	83	rpm		
0.18				s/60°	at 6.0V Medium Value		
11	Default Travel Angle	CW 60° (920us) CCW 60° (2120us)				—	
12	Max Travel Angle	CW 90° (920us) CCW 90° (2120us)				Programing tool (CIU-2 or CIU-3,S-Link) required.	
13	BackLash*	≤ 0.5°				—	
14	Operating Temperature Range	-30~+70℃ (-22~158°F)				—	
15	Storage Temperature Range	-40~+80℃ (-40~176°F)				—	
16	Outer Dimension	39.4 x 15.0 x 29.4mm (1.55 x 0.59 x 1.16 in)				Refer to Outer Dimension	
17	Weight	44g				With horn and screws Without cable	
18	Case Material	Aluminum				Surface : Anodizing Salt Water Resistance	
19	Gear Set Material	Steel				Surface : Hardening treatment	
20	Gear bearing	2 ball bearing				—	
21	Radial load	50N				Load position : Refer to Outer Dimension * Design reference value.	
22	Position Sensor	Magnetic Encoder				—	
23	Motor Type	Brushless DC Motor				—	
24	Cable	Non-Shielded Cable (Detachable)				Cable Length : 15.75 inch (400mm)	
25	Connector	Manufacture	Neltron Industrial Co., Ltd.			  M5 × 0.5	
		Type	120505-04P-FA-PB				
		Mating	120505-04S-A-MM etc.				
		Pin Assignment	1	Red	PWM / S.BUS		
			2	Green	Battery(-)		
			3	Black	Battery(+)		
—	White	Nom Connection					
26	MTTF *	Operating time > 1000h (TBC)				Operating Condition • at 7.4V • ±60°, 0.5Hz sweep Test Condition • Load : 1.0 kgf·cm	Angle Command Value CW : 60deg Neutral CCW : 60deg 
27	Vibration Resistance *	Operating time > 500h				Operating Condition • at 7.4V • ±60°, 0.5Hz sweep • No-Load	Test Condition (sine wave) • Frequency :10 to 500Hz (sweep 1oct/min, amplitude limit 2mm) • Acceleration : 300m/s ² • Vibration axis : X,Y,Z

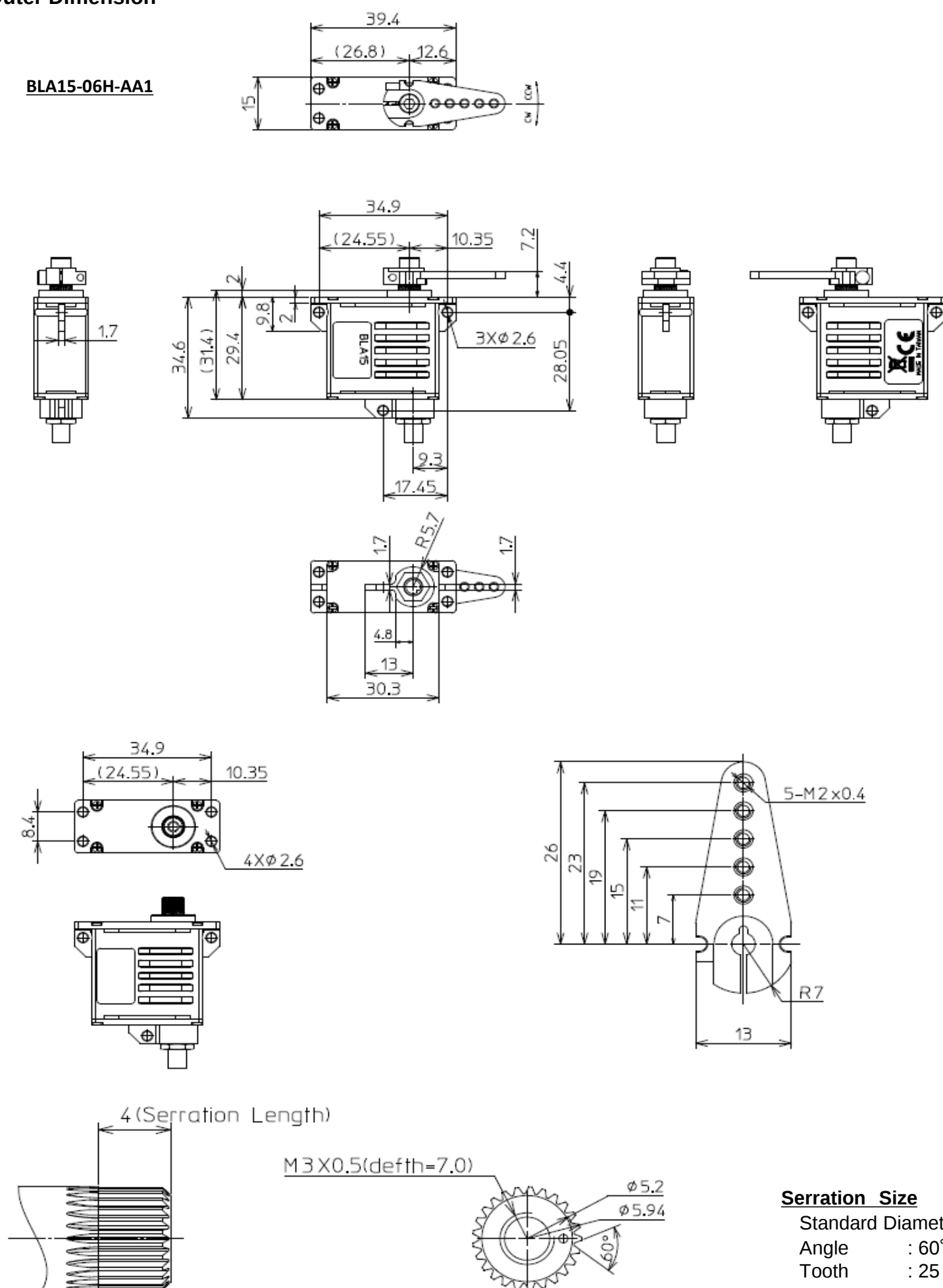
* At 23±5°C (Initial Performance Data)

All Specifications are subject to change without prior notice.**Caution**

- This product **SHOULD NOT** be used for the devices that is directly related to human life.
- Keep the servo away from an object which produces a strong magnetic field.
There is a possibility of malfunction if the servo is affected by a strong magnetic field.
- Please do not twist the cable. Twisting the cable will could result in breakage.

Outer Dimension

BLA15-06H-AA1



Serration Size

Standard Diameter : Ø6
Angle : 60°
Tooth : 25