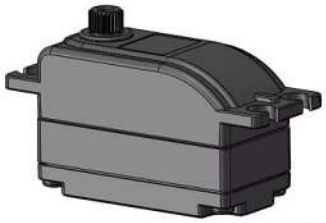
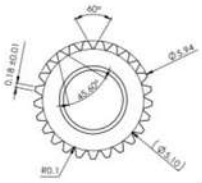
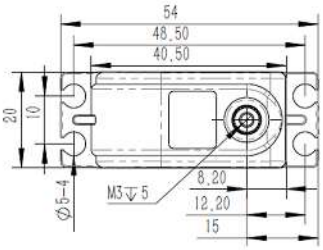
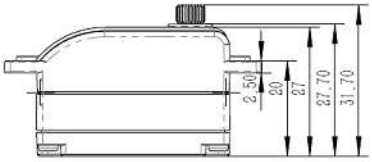
CM653 Technical Specification





25T- 6mm Output Shaft Spline

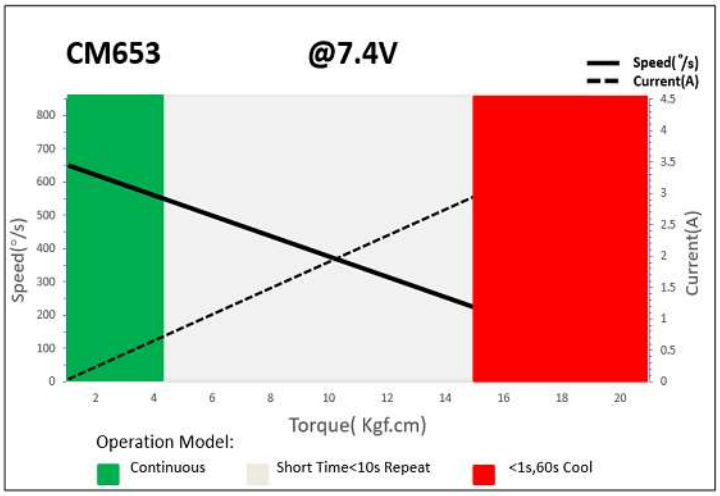




1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC4.8V-8.4V
Stalling Torque	10Kgf.cm@4.8V
	12Kgf.cm@6.0V
	15Kgf.cm@7.4V
	18Kgf.cm@8.4V
Speed	0.12sec/60°@4.8V
	0.10sec/60°@6.0V
	0.09sec/60°@7.4V
	0.08sec/60°@8.4V
Start Current	2.60A@4.8V
	3.20A@6.0V
	3.60A@7.4V
	4.05A@8.4V
Working Frequency	1520us/333Hz
Default Travel Angle	±50° =100° Total
Temperature Range	-10℃.....+65℃
Soft Start	Programable
Programable	Yes
Motor Type	Coreless DC Motor
Gear Set Material	Metal Gear
Position Sensor	Potentiometer
Ball Bearing	2BB
Waterproof	IP65
Case Dimensions	40.5*20*27.5±0.2mm
Weight	43g±10%

2. Performance

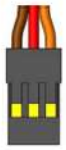


3. Command signal

PWM Command Interface

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Lengths	900us-2100us
Pulse Lengths for Position -50°/ 0°/+50°	1000us/1500us/2000us

4. Electrical Connection



3 2 1

Pin Assignment			
1	Orange	Signal	PWM Command
2	Red	DC+	Supply Voltage
3	Brown	DC-	Supply Ground

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