



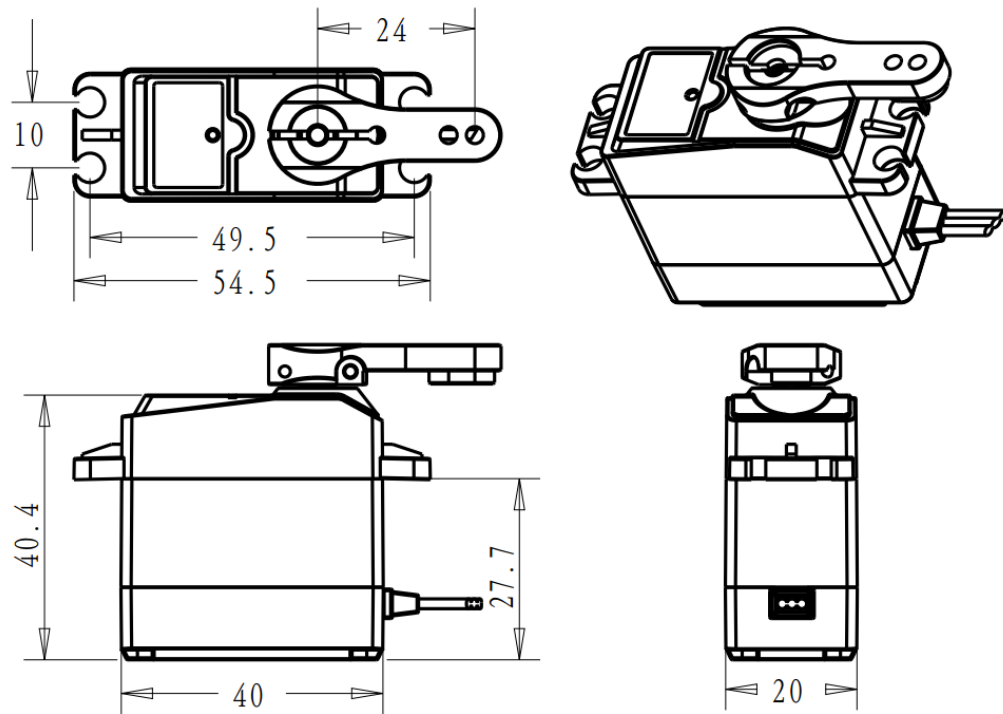
Model Number : DS3235 / DS3235-180 / DS3235-270

Product Description : 35kg Coreless Digital Servo @ 7.4V

Document File : DS3235-270_datasheet.pdf



1. Dimensions



2. Specification

No.	Item	Specification
1-1	Storage Temperature Range	-30°C ~ 80°C
1-2	Operating Temperature Range	-15°C ~ 70°C
1-3	Operating Voltage Range	5-7.4V

3. Mechanical Specification

No.	Item	Specification
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2-1	Size	40*20*38.5mm
2-2	Weight	60g
2-3	Gear ratio	373
2-4	Bearing	Double bearing
2-5	Connector wire	300±5mm
2-6	Motor	Coreless motor
2-7	Waterproof performance	IP66

4. Electrical Specification

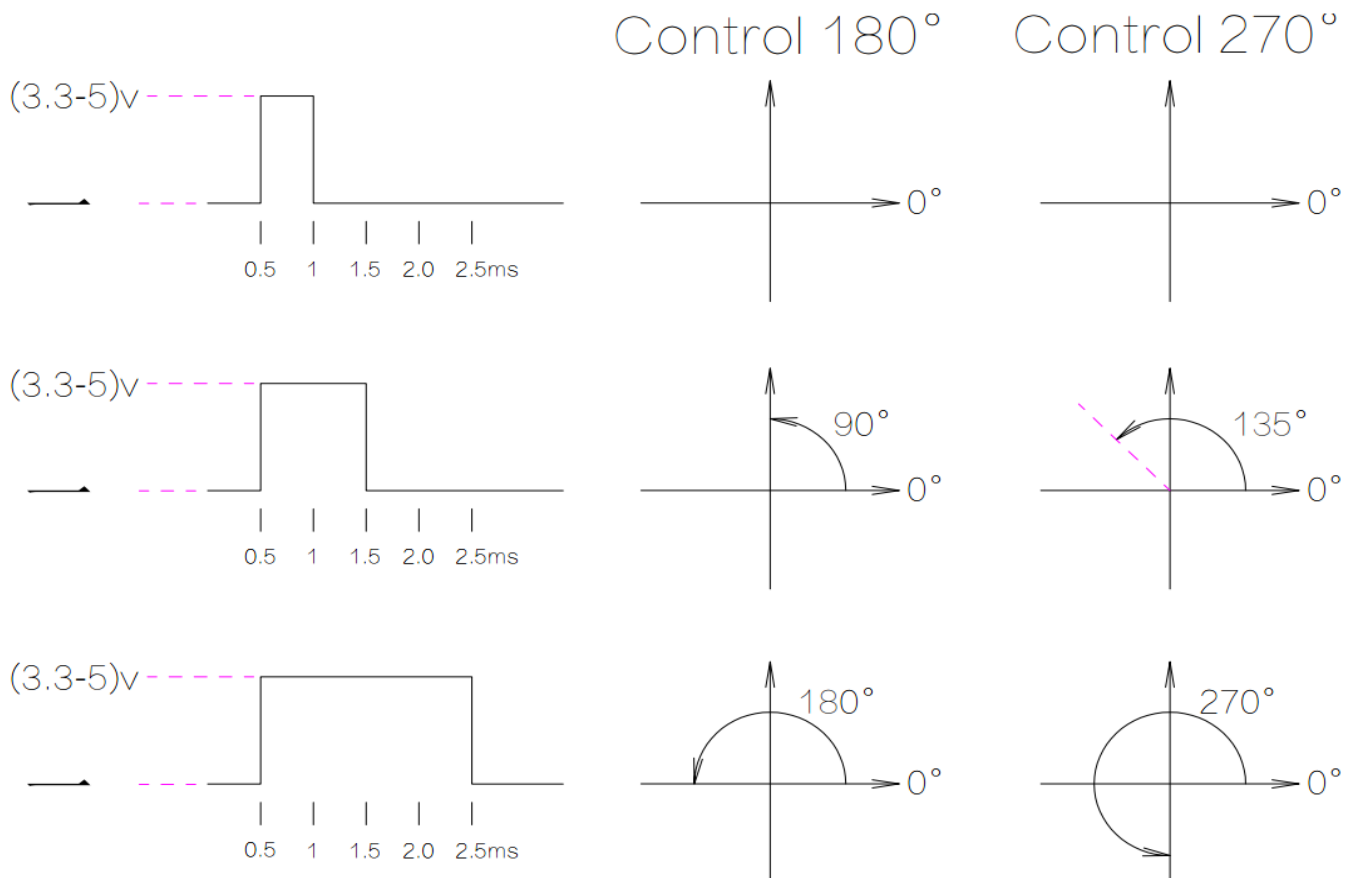
No.	Operating Voltage	5V	6V	7.4V
3-1	Idle current (at stopped)	5mA	5mA	5mA
3-2	Operating speed (at no load)	0.13 sec/60°	0.12 sec/60°	0.11sec/60°
3-3	Stall torque (at locked)	29 kg-cm	32 kg-cm	35 kg-cm
3-4	Stall current (at locked)	1.9A	2.1 A	2.3A

5. Control Specification

No.	Item	Specification
4-1	Control System	PWM(Pulse width modification)
4-2	Pulse width range	500～2500μsec
4-3	Neutral position	1500μsec
4-4	Running degree	180° or 270° (when 500～2500 μ sec)
4-5	Dead band width	2 μsec

4-6	Operating Frequency	50-330Hz
4-7	Rotating direction	Counterclockwise (when 500~2500 μ sec)

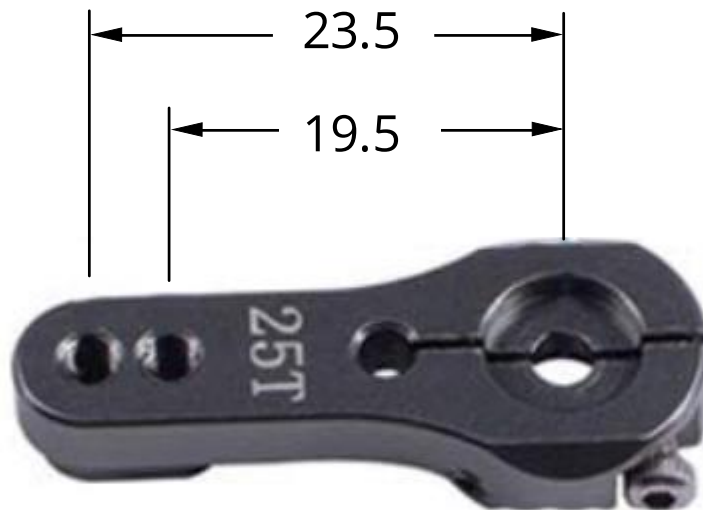
6. PWM - About PWM Control



7. Spline Specification - 25T



8. Servo Arm Dimensions (Optional)



9. Accessories (Optional)

