Dongguan Deao Intelligent Technology Co., Ltd.

Address: Building 1, Tianxin Industrial Zone, Dahou Village, Xiegang Town, Dongguan City, Guangdong Province

specification

(No.: S550C)

client: _____

Model: 9KG All-Copper Teeth

amendant record

Edition	take notes	date
1	Data Review	2023/9/26

1．Operating Environmental Conditions

No.	project	specifications
1-1	Storage temperature	-5 ～ 3 0
1-2	working temperature	1 0～ 5 0
1-3	relative humidity	Less than 85%
1-4	working voltage	4.8 V～ 6.0 V

2．testing environment

2-1	testing environment	Each test shall be conducted under normal temperature and humidity conditions—temperature of 25 ± 5°C and relative humidity of 65 ± 10%—and the characteristics shall be evaluated under the standard test conditions specified in this specification.

3．appearance inspection

No.	project	specifications
3-1	surface	No damage; no impact on functionality is permitted.

4．electrical character

No.	project	5 .0 V	6 .0 V
4-1	unloaded speed	0.22s ± 0.01 / 60°	0.18s ± 0.01 / 60°
4-2	no-load current	60 0 mA± 10 mA	80 0 mA± 10 mA
4-3	Locking torque	9 kg± 0.01	11 kg± 0.1
4-4	locked rotor current	20 00 mA± 30 mA	2300 mA± 30 mA
4-5	Standby current	10± 5 mA	10± 5 mA
4-6	No-load life	> 10,000 times	> 8,000 times

Note: In Project 4-2, the average value is defined under the condition that the server operates without load.

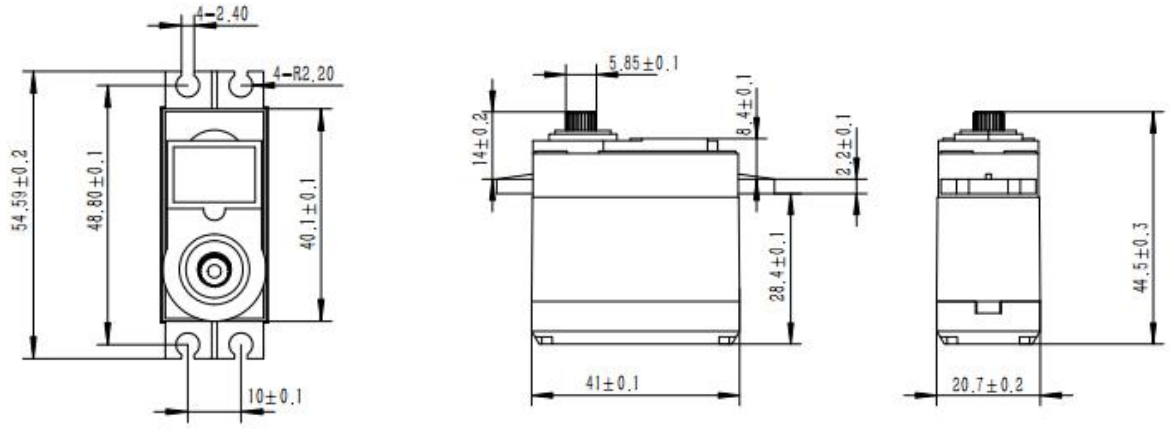
5 . mechanical properties

No.	project	specifications
5-1	Mechanical limit angle	infinite
5-2	weight	56 g
5-3	Wire gauge	30A plug JR
5-4	Wire length	Including plug: 30.0 ± 5 mm
5-5	Steering arm specifications	25T
5-6	Gear material	Tooth 1 (aluminum), Teeth 2–4 (copper)
5-7	Gear backlash	≤ 1°

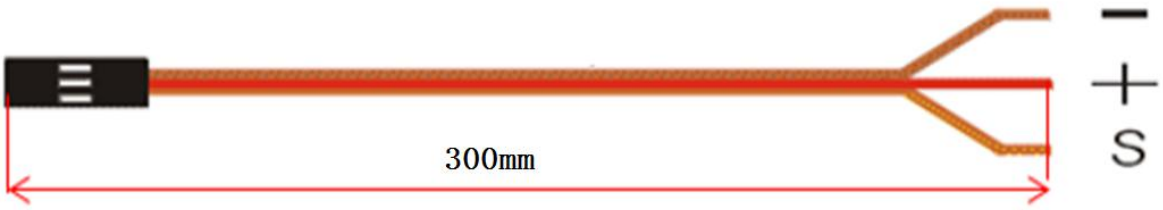
6 . control characteristic

No.	project	specifications
6-1	control method	Adjust pulse width (frequency: 50 Hz; pulse width range: 500 → 2,500 μs)
6-2	work angle	180° ± 8° (500→2500 μs)
6-3	Angle difference between the two sides	≤ 6°
6-4	Return to Zhong	≤ 1.0°
6-5	neutral position	1500 μs
6-6	Signal margin	≤ 6 μs
6-7	direction of rotation	Reverse time direction (500→2,500 μs)
6-8	Pulse width range	500→2500 μs
6-9	Controllable angular range	Approximately 180° (500→2500 μs)

7. External Dimensions



8 .mode of connection



9.picture of real products

