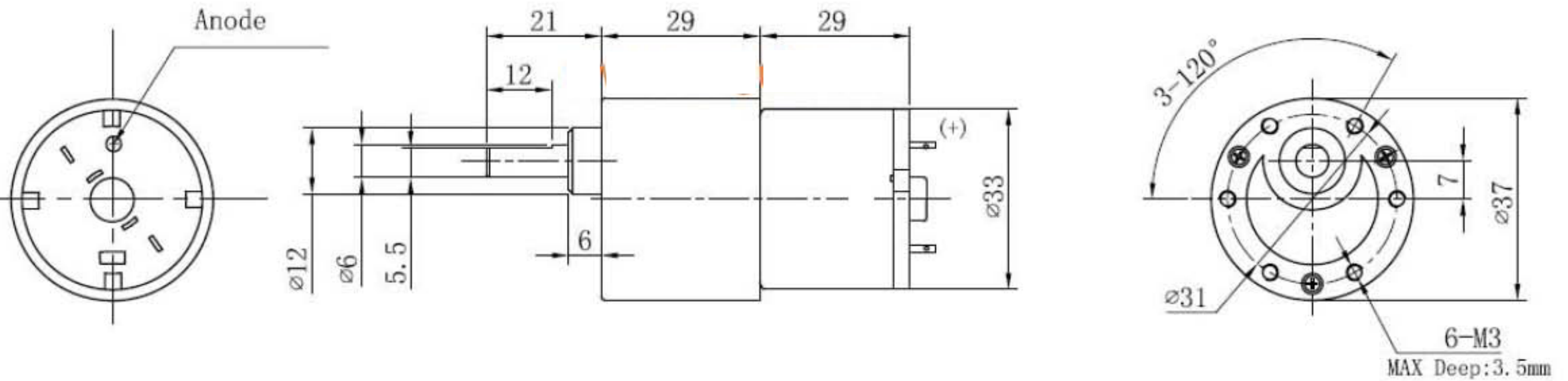


OUTLINE



1. STANDART OPERATING CONDITIONS

- | | | |
|-----|------------------------|------------------------------------------------------------------------------------------------------|
| 1.1 | RATED VOLTAGE: | DC 12V |
| 1.2 | OPERATING TEMPERATURE: | $-10-+60^\circ \text{ C}$ |
| 1.3 | DIRECTION ROTATION: | CLOCKWISE WHEN VIEWING MOTOR OUTPUT SIDE
WITH POSITIVE VOLTAGE APPLIED TO POSITIVE (RED) TERMINAL |

2. MEASURING CONDITIONS

- | | | |
|-----|-----------------|------------------------------------------|
| 2.1 | RATED VOLTAGE: | DC 12V |
| 2.2 | TEMPERATURE: | 27° C |
| 2.3 | HUMIDITY: | 65%RH |
| 2.4 | MOTOR POSITION: | MOTOR TO BE HELD WITH SHAFT HORIZONTALLY |

3. ELECTRICAL CHARACTERISTICS (at initial stage after 30 seconds run-in)

- | | | |
|-------|----------------|----------------------------|
| 3.1 | No Load | |
| 3.1.1 | Speed: | $3.9 \pm 10\% \text{ rpm}$ |
| 3.1.2 | Current: | 0.03A (0.09A max) |
| 3.2 | On Load | |
| 3.2.1 | Rated Torque: | 8kg. cm |
| 3.2.2 | Rated Current: | 0.12A (0.2A max) |
| 3.2.3 | Rated Speed : | $3.0 \pm 10\% \text{ rpm}$ |