

Datasheet

UNIT:MILLIMETER

1. Standard Operating Conditions:

1-1 Voltage operating range: 10.0~14.0 V DC.

1-2 Driving Voltage: 12.0V DC Constant between motor terminals.

1-3 Direction of Rotation: CW when viewed from output shaft side.

1-4 Position of Motor: To be placed horizontally when measuring.

2. Environmental Conditions:

2-1 Operation Temperature Range: -5°C ~55°C

2-2 Operation Humidity Range: 30%~95%

3. Electrical Characteristics (at initial stage)

3-1 No Load Current: 0.05A (0.08A Max)

3-2 No Load Speed : 35rpm $\pm 10\%$

3-3 Rated Load Current: 0.18A (0.25A Max)

3-4 Rated Load Speed: 32rpm $\pm 12\%$

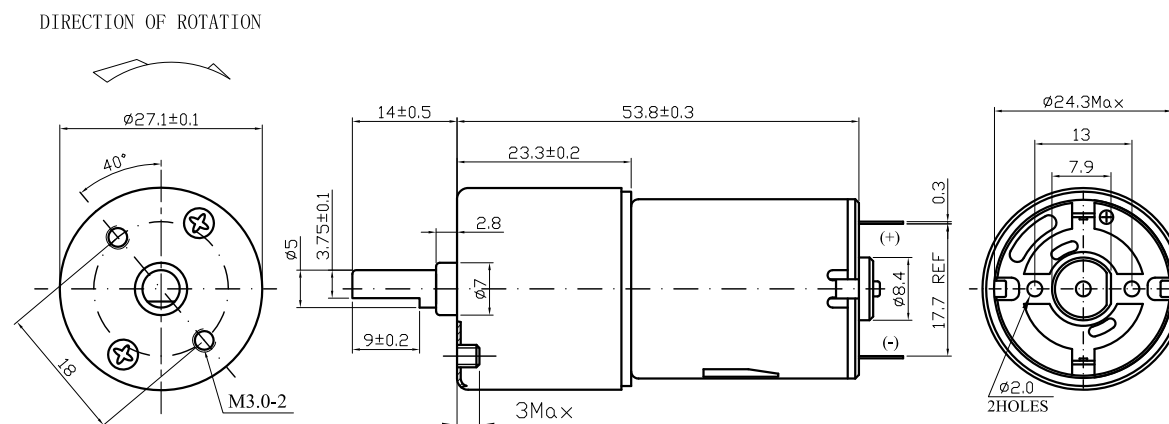
3-5 Rated Load: 2.0kg.

3-6 Start Voltage: 3.0 V Max

4.Noise Level:

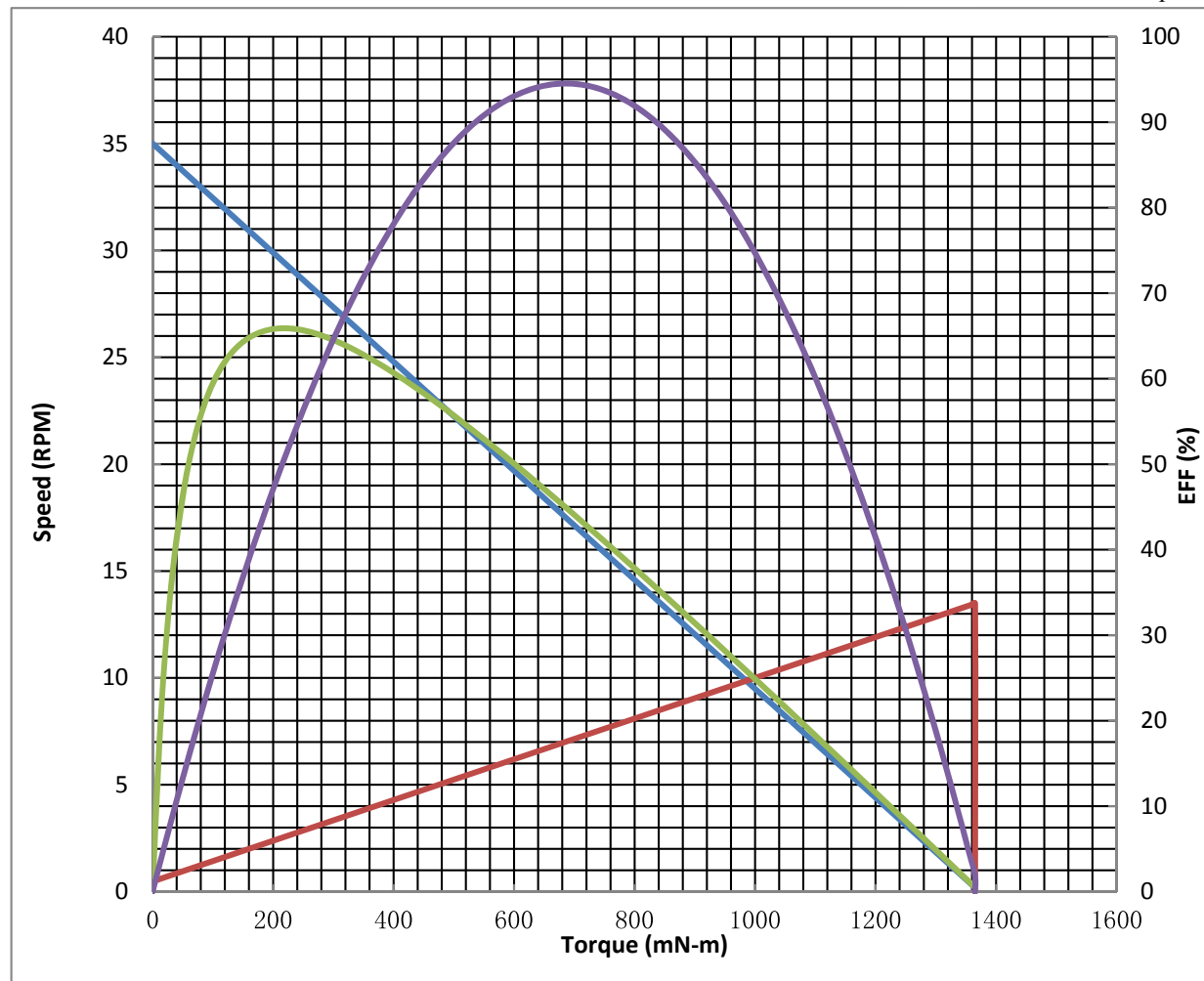
4-1 Test Method 10 cm Distance Test

4-2 Noise Level: 60 dB(A) Max.



Project No.: 0
No. : 27112203
Model : YG2734

Date : 2017.11.22
Full scale : 100 % Eff
5.0 Watts
5.0 Amp.



Performance (in an ambient temperature of 25-30 ° C)

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of : 12.00 Volts

Direction: CW

At No Load

Speed : 35 RPM
Current : 0.06 AMPS

At stall (Extrapolated)

Torque : 1372.01 mN-m
Current : 1.693 AMPS

At maximum efficiency

Efficiency: 65.9 %
Torque : 217.350 mN-m
Speed : 29 RPM
Current : 0.319 AMPS
Output : 2.52 Watts

At maximum Power output

Output : 4.726 Watts
Torque : 686.005 mN-m
Speed : 19 RPM
Current : 0.82 AMPS

Characteristics

Torque constant : 840.007 mN-m/AMP
E.M.F. constant : 87.921 mV/rad/sec
Dynamic resistance: 7.0866 Ohms
Motor regulation : 0.03 RPM/mN-m

Issued by QA Reliability Testing Center

COMPUTER PRINT-OUT
NOMINAL MOTOR CURVES
Performance and characteristics
are measured based on limited
motor samples only