

#531009 motor set data sheet

1. Standard Operating Conditions:
 - 1-1 Rated Voltage : 7.5 V DC CONSTANT between motor terminals.
 - 1-2 Rated Load : 350g.cm by torque meter.
 - 1-3 Direction of Rotation: CCW when viewed from output shaft side.

2. Measuring Conditions:
 - 2-1 Motor Position: Motor to be held, with shaft horizontally.
 - 2-2 Power Supply: Regulated power supply which assures unquestionable measurement
 - 2-3 Environmental Temperature and Humidity: The test is made in principle at a temperature between 10 °C and 30 °C ; and at relative humidity between 30% and 95%.

3. Electrical Characteristics (at initial stage after 3 minutes run-in):
 - 3-1 No Load Current: 3.00 A max.
 - 3-2 No Load Speed: 22000 ± 12% r/min
 - 3-3 Rated Load Current: 15.0 A max
 - 3-4 Rated Load Speed: 18700 ± 12% r/min
 - 3-5 Dielectric Strength: AC 500 V (50-60Hz) for one minute between motor terminal and motor metal housing
 - 3-6 Reference Characteristic Curve: See spec .NO. LS-63143 attached

4. Mechanical Characteristics:
 - 4-1 External Appearance: As per our Drawing No:LS-63143
 - 4-2 Shaft End Play: 0.05-0.60 mm

5. Motor Temperature Rise:

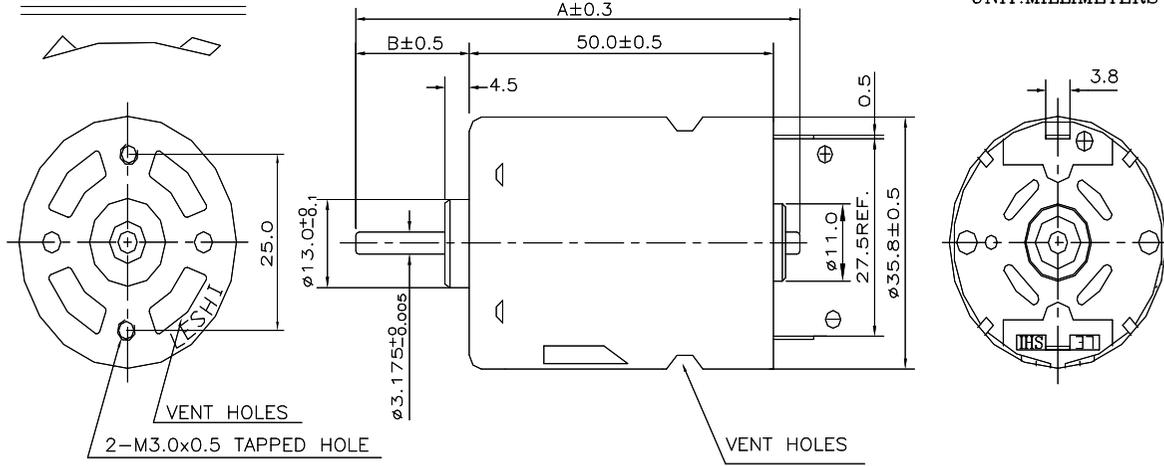
Maximum Allowable Temperature: 70 °C at surface of motor metal housing.

6. Rejects:

Motors which do not meet with the specifications mentioned above or which are apparently judged as faulty due to poor workmanship.

DIRECTION OF ROTATION

UNIT: MILLIMETERS



NOTES:

1. LENGTH OF SHAFT DIM "A" IS: 72.0 MM
2. FRONT EXTENSION DIM "B" IS: 16.0 MM;
MEASURED WITH SHAFT PUSHED TO END CAP
3. END PLAY 0.60 MM MAX .
4. DIRECTION OF ROTATION: ANTI-CLOCKWISE
WHEN VIEWING MOTOR OUTPUT END WITH POSITIVE
VOLTAGE APPLIED TO POSITIVE TERMINAL.

RATED VOLTAGE : 7.5 VDC

AT NO LOAD

CURRENT : 2.20 A
SPEED : 22000 rpm

AT MAXIMUM EFFICIENCY

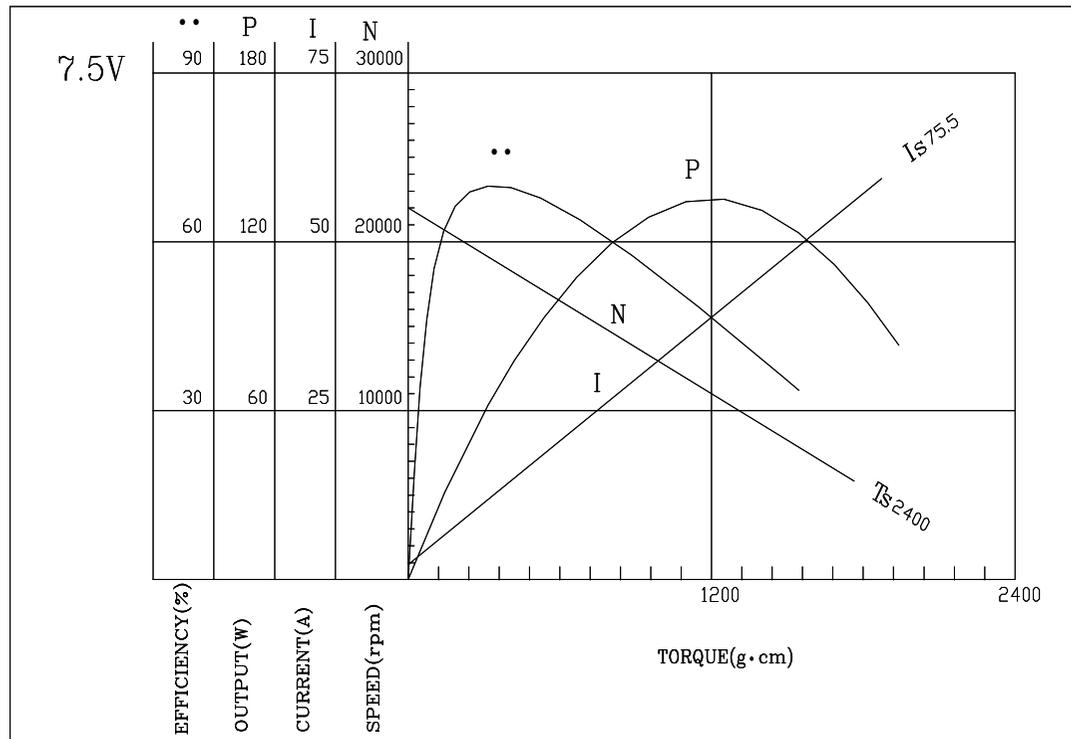
TORQUE : 350 g . cm
CURRENT : 12.88 A
SPEED : 18792 rpm
OUTPUT : 67.46 W
EFFICIENCY : 69.8 %

AT MAXIMUM POWER

TORQUE : 1200 g . cm
CURRENT : 38.8 A
SPEED : 11000 rpm
OUTPUT : 135.4 W

AT STALL

CURRENT : 75.5 A
TORQUE : 2400 g . cm



Your part No:

DRAW BY

D.Y.Q

CHECKED BY

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APPROVED BY

DATE

07/22/2016