

Excellence in *Micromotors* Since 1959
Date : 2007/01/08

SOF NO : 05/0004 (97057)
Project No.: 06DT036-1090077
Winding : 0.47 - 22
Motor test reference no : HC987LG/BF/25077/5E3(CCW)

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
With a circuit resistance 0.000 Ohms

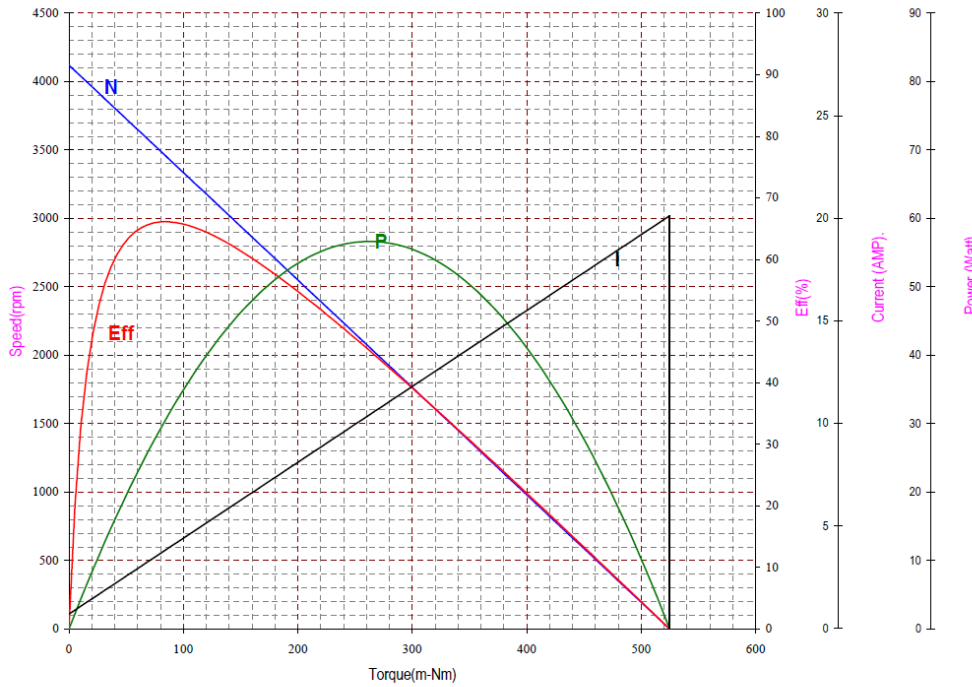
At No Load
Speed : 4120 Rpm
Current : 0.734 Amp
At stall (Extrapolated)
Torque : 524.958 m-Nm
Current : 20.131 Amp
At maximum efficiency
Efficiency : 66.13 %
Torque : 84.151 m-Nm
Speed : 3459 Rpm
Current : 3.843 Amp
Output : 30.496 Watts
At maximum power
Torque : 262.479 m-Nm
Speed : 2060 Rpm
Current : 10.433 Amp
Output : 56.641 Watts

Characteristics
Torque Constant : 27.063 m-Nm/Amp
E.M.F Constant : 27.063 mV/rad/sec
Dy. Resistance : 0.596 Ohms
Motor Regulation : 7.848 Rpm/m-Nm

At Torque Level:
Torque : 300.000 m-Nm
Speed : 1765 Rpm
Current : 11.819 Amp
Efficiency : 39.12 %
Output : 55.483 Watts

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

Issued by Motor Sampling



FORM : PIB-930701-1

ALT	REV	DESCRIPTION	DATE	BY
A	SR#24150	Initial release	2007/01/04	YL ZH+O

ROTATION

4-M5.0 TAPPED HOLES

7.0±0.3 BUSHING

10.0 REF.

1090077 3GXXXX

5.6±0.3 5.5±0.3

85.0±0.3 DIM"A"±0.3

0.5±0.1 1.0 X

42.0±1.0 0.5±0.1

0.0 0.000 -0.005

0.0 0.0

21.8 -0.1

52.1 ±0.3

7.75 ±0.1

DIM"B"±0.3

0.000 -0.005

0.0 0.0

21.8 -0.1

52.1 ±0.3

7.75 ±0.1

DIRECT PRINT MOTOR CODE & DATE CODE ONTO REAR HOUSING
DATE CODE FORMAT AS ESDC-038

NOTES:
1. LENGTH OF SHAFT, DIM."A" 116.0 mm.
2. FRONT EXTENSION , DIM."B" 22.6 mm, MEASURED WITH SHAFT PUSHED AGAINST ENDCAP.
3. DIRECTION OF ROTATION : ANTI-CLOCKWISE WHEN VIEWING MOTOR OUTPUT END WITH POSITIVE VOLTAGE APPLIED TO POSITIVE TERMINAL.
4. END PLAY : 0.6 mm MAX.

DWN. BY JENNY YANG	CHK. BY	APP. BY
Date (yyyy/mm/dd) 2006/9/14	Date (yyyy/mm/dd)	Date (yyyy/mm/dd)

<p>MATERIAL:</p> <p>FINISH:</p> <p>General Tolerance : ISO 2768-1 Class m (Unless specified)</p> <p>JOHNSON ELECTRIC GROUP OF COMPANIES</p> <p>JOHNSON ELECTRIC</p> <p>This document is the property of Johnson Electric and the information herein contained is confidential. Unauthorised reproduction or other use thereof, whether directly or indirectly in whole or in part, is strictly prohibited. All products made or otherwise derived directly or indirectly from this document are proprietary to Johnson Electric.</p> <p>© Copyright Johnson Electric S.A. 2006. All rights reserved.</p>	<p>ALL DIMENSIONS ARE IN MILLIMETRES</p> <p>SCALE 1:1</p> <p>TITLE MOTOR OUTLINE</p> <p>DWG No. 1999-1090077</p> <p>SHEET 1 OF 1</p>
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