

DIRECT PRINT CUSTOMER LOGO, MOTOR CODE & DATE CODE ONTO REAR HOUSING. DATE CODE FORMAT AS ESDC-038.

ROTATION

JOHNSON ELECTRIC GROUP OF COMPANIES (JOHNSON ELECTRIC)
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NOTES:

1. LENGTH OF SHAFT, DIM. "A" 49.00 mm.
2. FRONT EXTENSION, DIM. "B" 11.6 mm, MEASURED WITH SHAFT PUSHED AGAINST PLASTIC END CAP.
3. DIRECTION OF ROTATION: ANTI-CLOCKWISE WHEN VIEWING MOTOR OUTPUT END WITH POSITIVE VOLTAGE APPLIED TO POSITIVE TERMINAL.
4. END PLAY : 0.50 mm MAX.
5. MAX. MALES SCREW LENGTH ENGAGED INTO MOTOR HOUSING TO BE 3.0 mm.

A		FIRST ISSUE (01U5051)		CHAN	2002/07/12
ALT.	REF.	DESCRIPTION		BY	DATE
MATERIAL		FINISH		TOLERANCES	
				1 DEC. PLACE ± 0.15 2 DEC. PLACES ± 3 DEC. PLACES ± ANGULAR ± 2°	
TITLE		HC313G MOTOR OUTLINE		TESTCO 800-748-6285 WWW.TESTCO-INC.COM P/N HC313G-27.5-32.5-001	
JOHNSON ELECTRIC ENGINEERING A JOHNSON ELECTRIC GROUP COMPANY JOHNSON BUILDING, TAI PO, HONG KONG					

ALL DIMENSIONS ARE IN MILLIMETRES

DO NOT SCALE DRAWING

Excellence in *Micromotors* Since 1959

SOF NO : 01U5051/15/005 (57193)

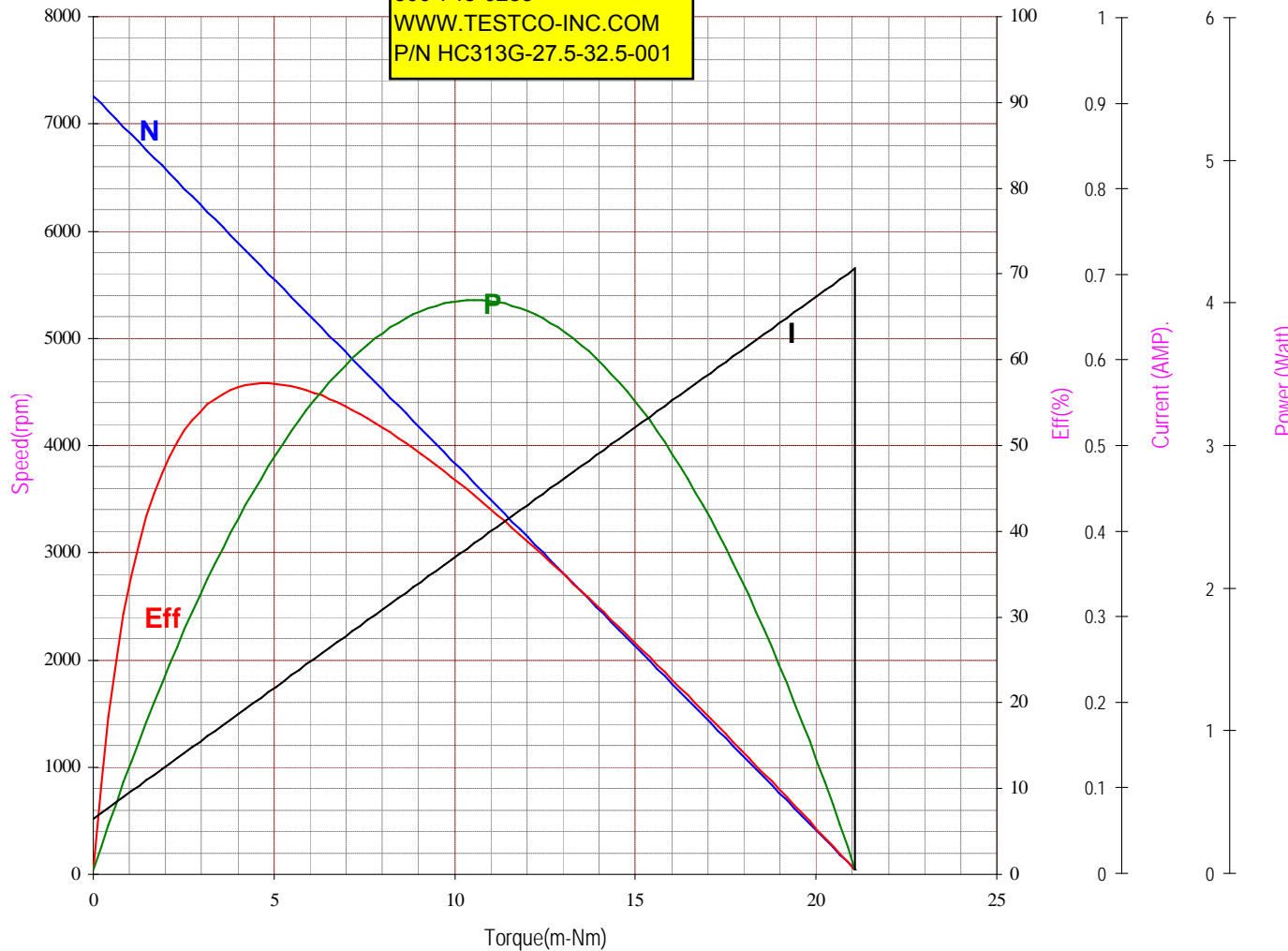
Date : 2002/11/02

Project No.: 01U5051

Winding : 0.1 - 495

Motor test reference no :

TESTCO
800-748-6285
WWW.TESTCO-INC.COM
P/N HC313G-27.5-32.5-001



Performance (In an ambient temperature of 25 -30 C)

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of	24.00	Volts
With a circuit resistance	0.000	Ohms

At No Load

Speed :	7221 Rpm
Current:	0.060 Amp

At stall (Extrapolated)

Torque :	21.084 m-Nm
Current:	0.701 Amp

At maximum efficiency

Efficiency :	56.73 %
Torque :	4.772 m-Nm
Speed :	5586 Rpm
Current :	0.205 Amp
Output :	2.793 Watts

At maximum power

Torque :	10.542 m-Nm
Speed :	3610 Rpm
Current :	0.381 Amp
Output :	3.987 Watts

Characteristics

Torque Constant :	32.886 m-Nm/Amp
E.M.F Constant :	32.886 mV/rad/sec
Dy. Resistance :	34.231 Ohms
Motor Regulation:	342.476 Rpm/m-Nm

At Torque Level:

Torque: m-Nm

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

Issued by Motor Sampling