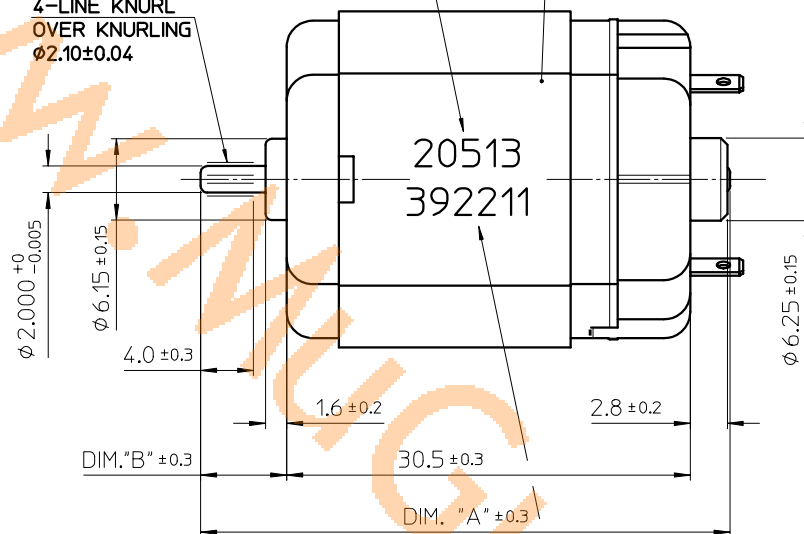


4-LINE KNURL
OVER KNURLING
 $\phi 2.10 \pm 0.04$

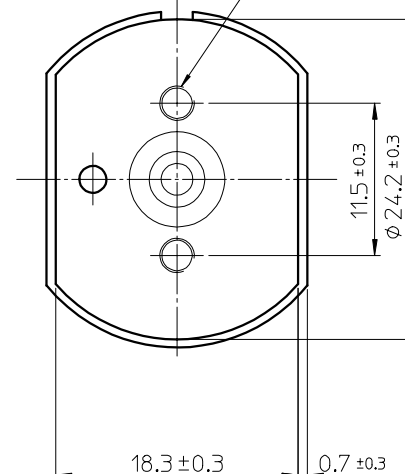
MOTOR CODE 20240-31300



ROTATION



2 ~ M2.6 TAPPED HOLES



JOHNSON ELECTRIC GROUP OF COMPANIES ("JOHNSON ELECTRIC")
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DIRECT PRINT ONTO KEEPER RING MOTOR CODE & DATE CODE, CHARACTERS ARE TO
BE BLACK OF MIN. HEIGHT 2mm & NON-REMOVABLE.
DATE CODE FORMAT:-
FIRST DIGIT - STAND FOR LOCATION CODE. eg. 1 FOR P01 & P12, 3 FOR 301, 8 FOR 801.
SECOND DIGIT - STAND FOR PRODUCTION YEAR. eg. 9 FOR 1999.
THIRD & FOURTH DIGITS - STAND FOR PRODUCTION WEEK. eg. 50 FOR 50 th WEEK.
FIFTH DIGIT - STAND FOR WEEK DAY. eg. 1 FOR MON., 2 FOR TUE., 3 FOR WED.,
4 FOR THU., 5 FOR FRI., 6 FOR SAT., 7 FOR SUN.
LAST DIGIT - STAND FOR LOT NUMBER.

NOTES:-

1. LENGTH OF SHAFT, DIM. "A" 40.0 mm.
2. FRONT EXTENSION, DIM. "B" 6.5 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 : 0.5 mm MAX.

ALL DIMENSIONS ARE IN MILLIMETRES

DO NOT SCALE DRAWING

D		ADDED KEEPER RING, COMMUTATOR & VARISTOR CHANGED.			
ALT. REF.		DESCRIPTION		BY DATE	
MATERIAL		FINISH		TOLERANCES	
				1 DEC. PLACE ± 0.15 2 DEC. PLACES \pm 3 DEC. PLACES \pm ANGULAR $\pm 2^\circ$	
TITLE		(NF 213 G)		SCALE 2.5 : 1 DATE	
MOTOR OUTLINE				DWN. BY LILY 4/05/99	
				CHK. BY	
				APP. BY	
				DWG. NO.	
				20513-99900	



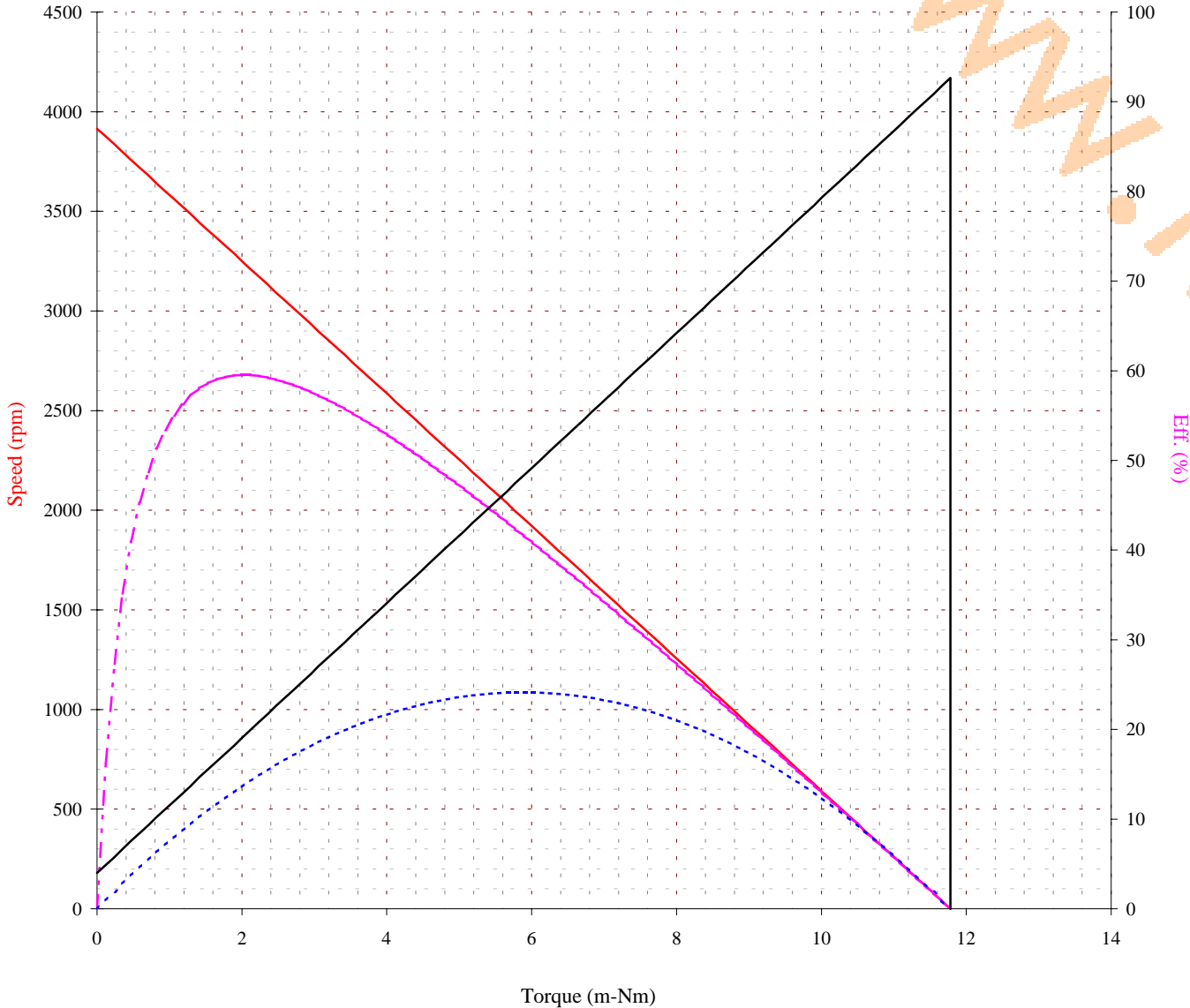
JOHNSON ELECTRIC IND. MFTY. LTD.
JOHNSON BUILDING, CHAI WAN, HONGKONG.

Project No : Production Motor
Curve No : NF213G-20513

Winding : 0.10 - 430

Date : 04/27/1999
Model :

Full Scales :
0.50 Amp
5.00 Watts



Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of **12.00** Volts
with a circuit resistance **0.000** Ohm

(At the ambient temperature of 25~30 deg C)

At No Load

Speed : 3915 Rpm
Current : 0.020 Amp

At Stall (Extrapolated)

Torque : 11.78 m-Nm
Current : 0.46 Amp

At Maximum Efficiency

Efficiency : 59.53 %
Torque : 2.00 m-Nm
Speed : 3249 Rpm
Current : 0.10 Amp
Output : 0.68 Watts

At Maximum Power

Torque : 5.89 m-Nm
Speed : 1958 Rpm
Current : 0.24 Amp
Output : 1.21 Watts

Characteristics

Torque Constant : 26.5820 m-Nm/Amp
Dy. Resistance : 25.9050 Ohms
Motor Regulation : 332.2870 Rpm/m-Nm

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