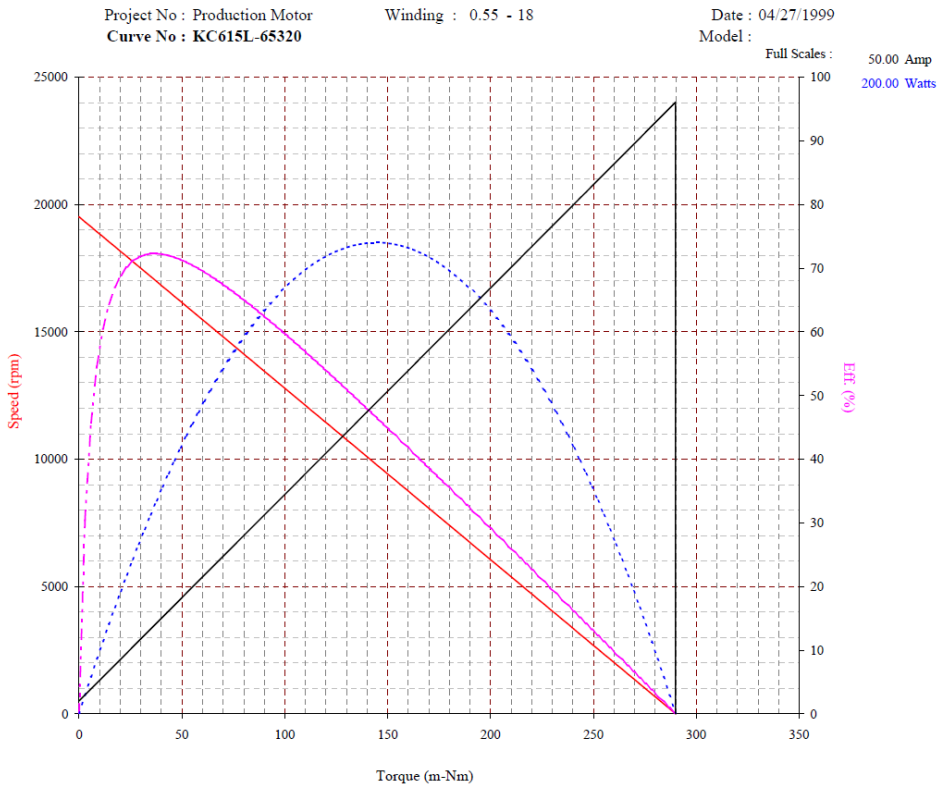
JOHNSON ELECTRIC ENGINEERING LTD.



Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of	**13.00**	Volts
with a circuit resistance	0.000	Ohm

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

At No Load

Speed :	19517	Rpm
Current :	1.013	Amp

At Stall (Extrapolated)

Torque :	289.91	m-Nm
Current :	48.04	Amp

At Maximum Efficiency

Efficiency :	72.29	%
Torque :	37.69	m-Nm
Speed :	16980	Rpm
Current :	7.13	Amp
Output :	66.98	Watts

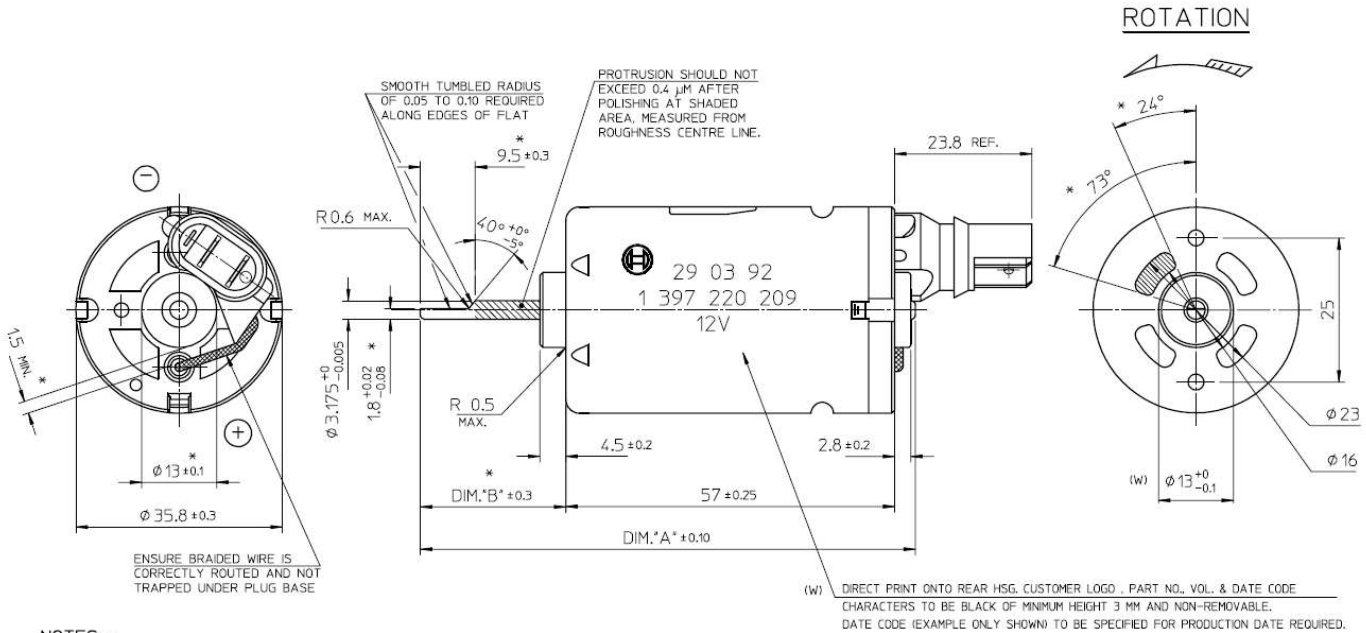
At Maximum Power

Torque :	144.96	m-Nm
Speed :	9759	Rpm
Current :	24.53	Amp
Output :	148.03	Watts

Characteristics

Torque Constant :	6.1650	m-Nm/Amp
Dy. Resistance :	0.2710	Ohms
Motor Regulation :	67.3210	Rpm/m-Nm

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



NOTES:-

1. LENGTH OF SHAFT, DIM. "A" __85.80__ mm..
2. FRONT EXTENSION, DIM. "B" __25.20__ mm., MEASURED WITH A FORCE OF 510 gms. (5N) PUSHING SHAFT 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. THE ASSEMBLED PLUG IS TO WITHSTAND A PULL OFF FORCE OF 250 gms.
6. THE DIMS. MARKED * THUS SPECIAL CUSTOMER REQUIREMENTS.