



JOHNSON ELECTRIC INDUSTRIAL MANUFACTORY LTD.

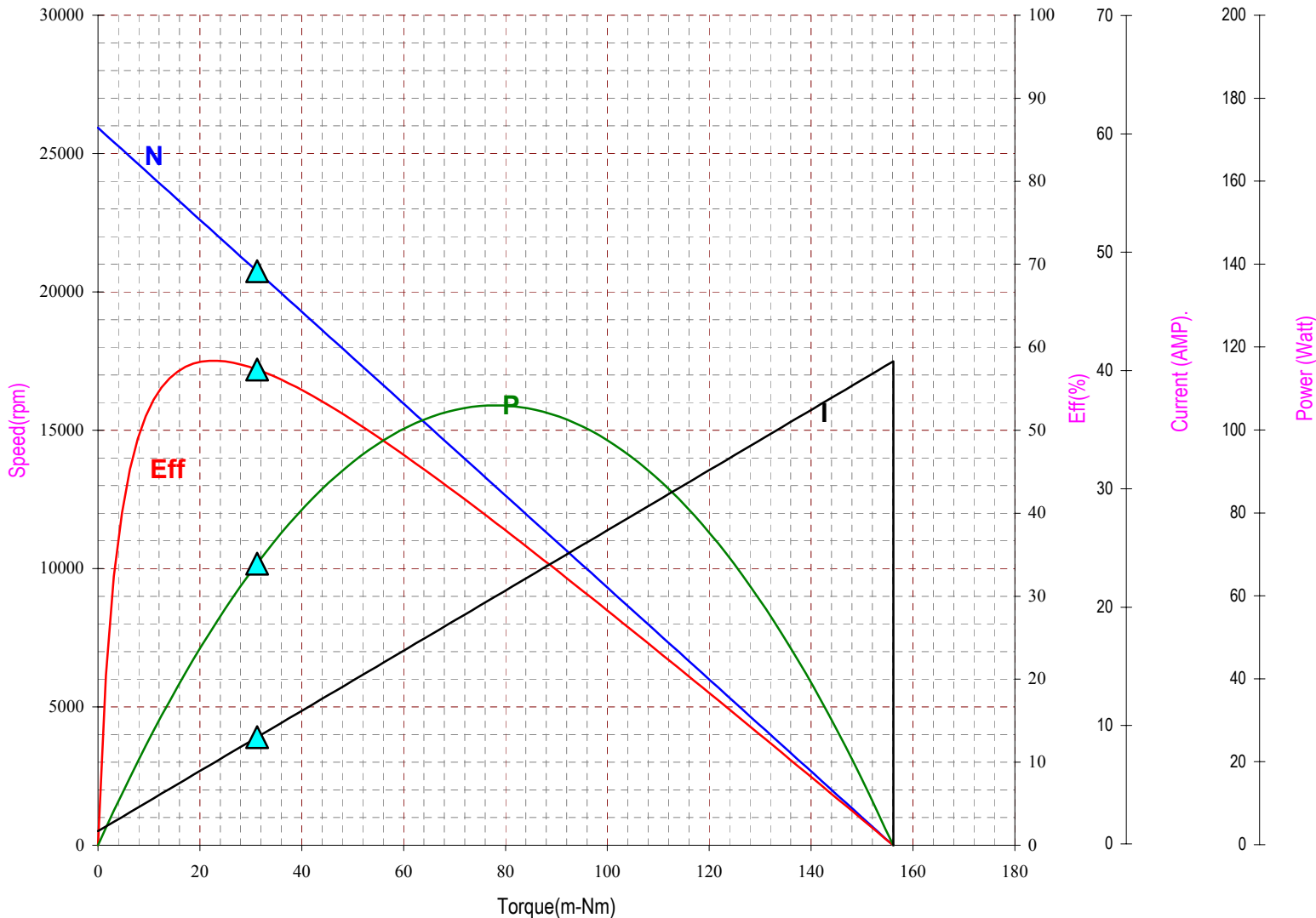
Johnson Building,6-22, Dai Shun Street, Tai Po, Hong Kong.

Excellence in *Micromotors* Since 1959

Date : 05-10-27

Project No.: production motor-45020

Winding : 0.5 - 19



FORM : PIB-930701-1

Simulation at 25 C
 Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of **13.00** Volts
 With a circuit resistance **0.000** Ohms

At No Load
 Speed : 25933 Rpm
 Current: 1.183 Amp

At stall (Extrapolated)
 Torque : 156.124 m-Nm
 Current: 40.805 Amp

At maximum efficiency
 Efficiency : 58.38 %
 Torque : 22.718 m-Nm
 Speed : 22158 Rpm
 Current : 6.949 Amp
 Output : 52.735 Watts

At maximum power
 Torque : 78.062 m-Nm
 Speed : 12961 Rpm
 Current : 20.994 Amp
 Output : 105.995 Watts

Characteristics
 Torque Constant : 3.940 m-Nm/Amp
 E.M.F Constant : 3.940 mV/rad/sec
 Dy. Resistance : 0.319 Ohms
 Motor Regulation: 166.171 Rpm/m-Nm

At Torque Level: At Fan: B50

Torque:	30.000 m-Nm	Torque:	30.227
Speed:	20948 Rpm	Speed:	20910
Current:	8.797 Amp	Current:	8.854
Efficiency:	57.57 %	Efficiency:	57.53
Output:	65.836 Watts	Output:	66.214

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

Issued by CATD Simulation