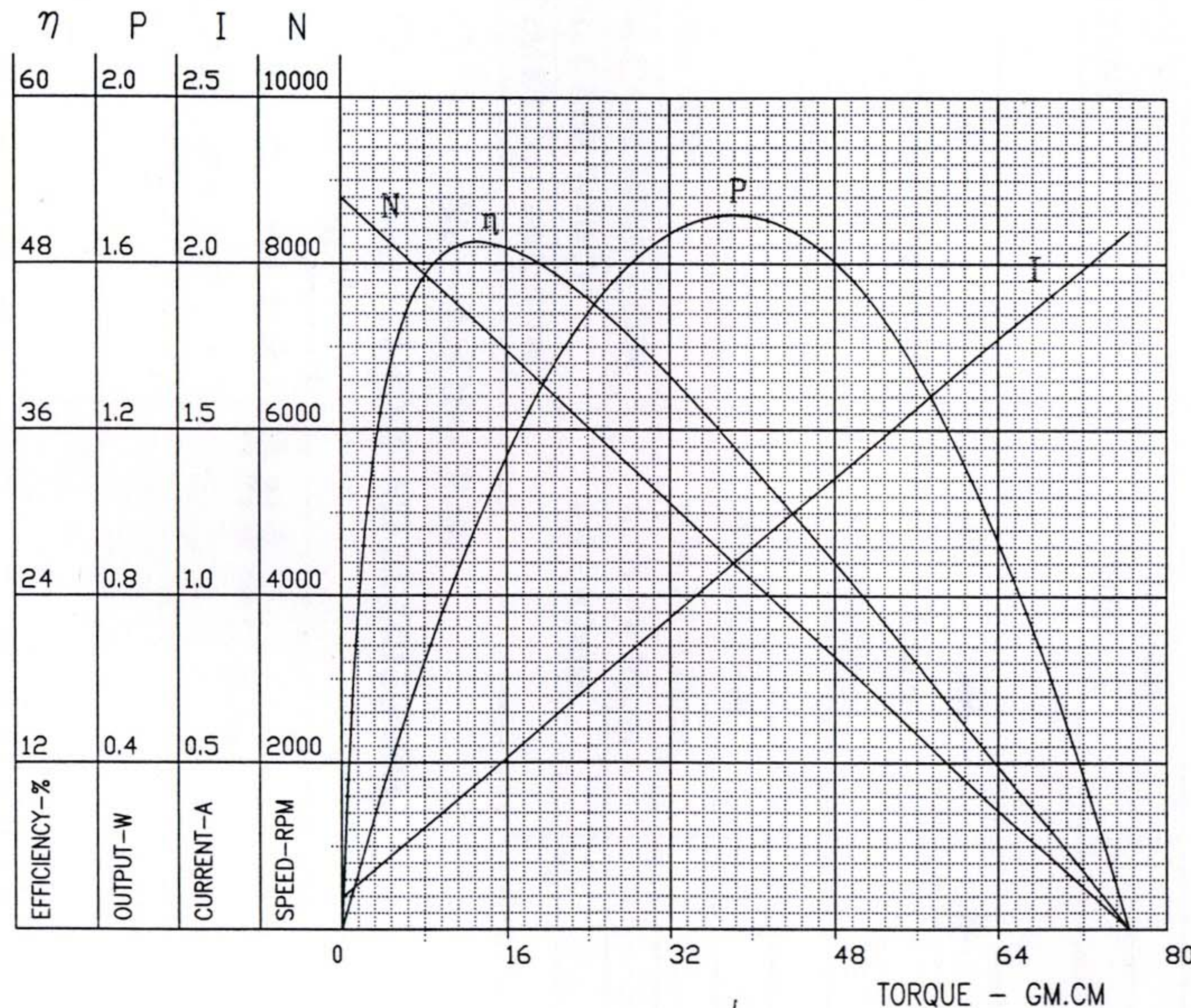


MICRO MOTOR MFG. CO. NO.: curve - MF28-20120-002

MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:

MODEL: *MF28C-20120*

VOLTAGE: 4.5 V



PERFORMANCE

AT NO LOAD

SPEED = 8800 RPM
CURRENT = 0.095 AMP

AT STALL EXTRAPOLATION

TORQUE = 76.4 G.CM
CURRENT = 2.100 AMP.

AT MAXIMUM EFFICIENCY:

EFFICIENCY = 49.62 %
SPEED = 7257 RPM
TORQUE = 13.4 G.CM
CURRENT = 0.447 AMP.
OUTPUT = 0.997 WATTS

AT MAXIMUM OUTPUT

SPEED = 4400 RPM
TORQUE = 38.2 G.CM
CURRENT = 1.050 AMP.
OUTPUT = 1.724 WATTS

CHARACTERISTICS

TORQUE CONSTANT = 38.105 G.CM/AMP.
E.M.F CONSTANT = 4.662 mV/Rad/Sec
DYNAMIC RESISTANCE = 2.143 Ohms
MOTOR REGULATION = 115.183 RPM/G.CM

NOTE: THE CURVES REPRESENT THE THEORETICAL PERFORMANCE OF THE FEW SAMPLES, FOR REFERENCE ONLY.

PREPARED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: _____