

# MICRO MOTOR MFG. CO. NO.: curve - M500 - 12415 - 001

## MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:

MODEL: \*M500T-14415\*

VOLTAGE: 3.0 V

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60 0.250 0.350 2000

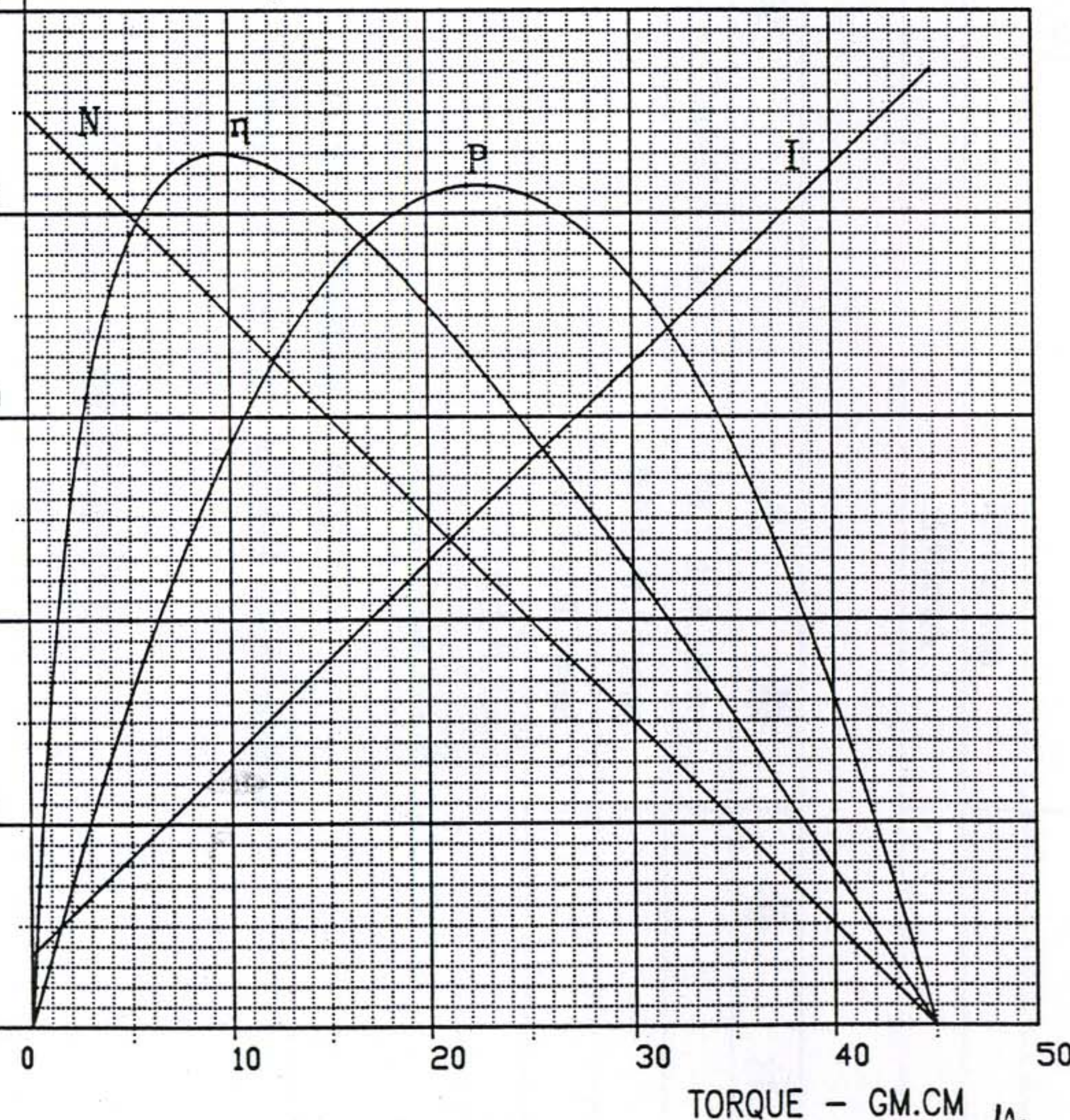
48 0.200 0.280 1600

36 0.150 0.210 1200

24 0.100 0.140 800

12 0.050 0.070 400

EFFICIENCY-%  
OUTPUT-W  
CURRENT-A  
SPEED-RPM



### PERFORMANCE

#### AT NO LOAD

SPEED = 1800 RPM  
CURRENT = 0.025 AMP

#### AT STALL EXTRAPOLATION

TORQUE = 45.0 G.CM  
CURRENT = 0.330 AMP.

#### AT MAXIMUM EFFICIENCY:

EFFICIENCY = 51.60 %  
SPEED = 1411 RPM  
TORQUE = 9.7 G.CM  
CURRENT = 0.091 AMP.  
OUTPUT = 0.141 WATTS

#### AT MAXIMUM OUTPUT

SPEED = 900 RPM  
TORQUE = 22.5 G.CM  
CURRENT = 0.165 AMP.  
OUTPUT = 0.208 WATTS

### CHARACTERISTICS

TORQUE CONSTANT = 147.541 G.CM/AMP.  
E.M.F CONSTANT = 14.710 mV/Rad/Sec  
DYNAMIC RESISTANCE = 9.091 Ohms  
MOTOR REGULATION = 40.000 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: [Signature]