

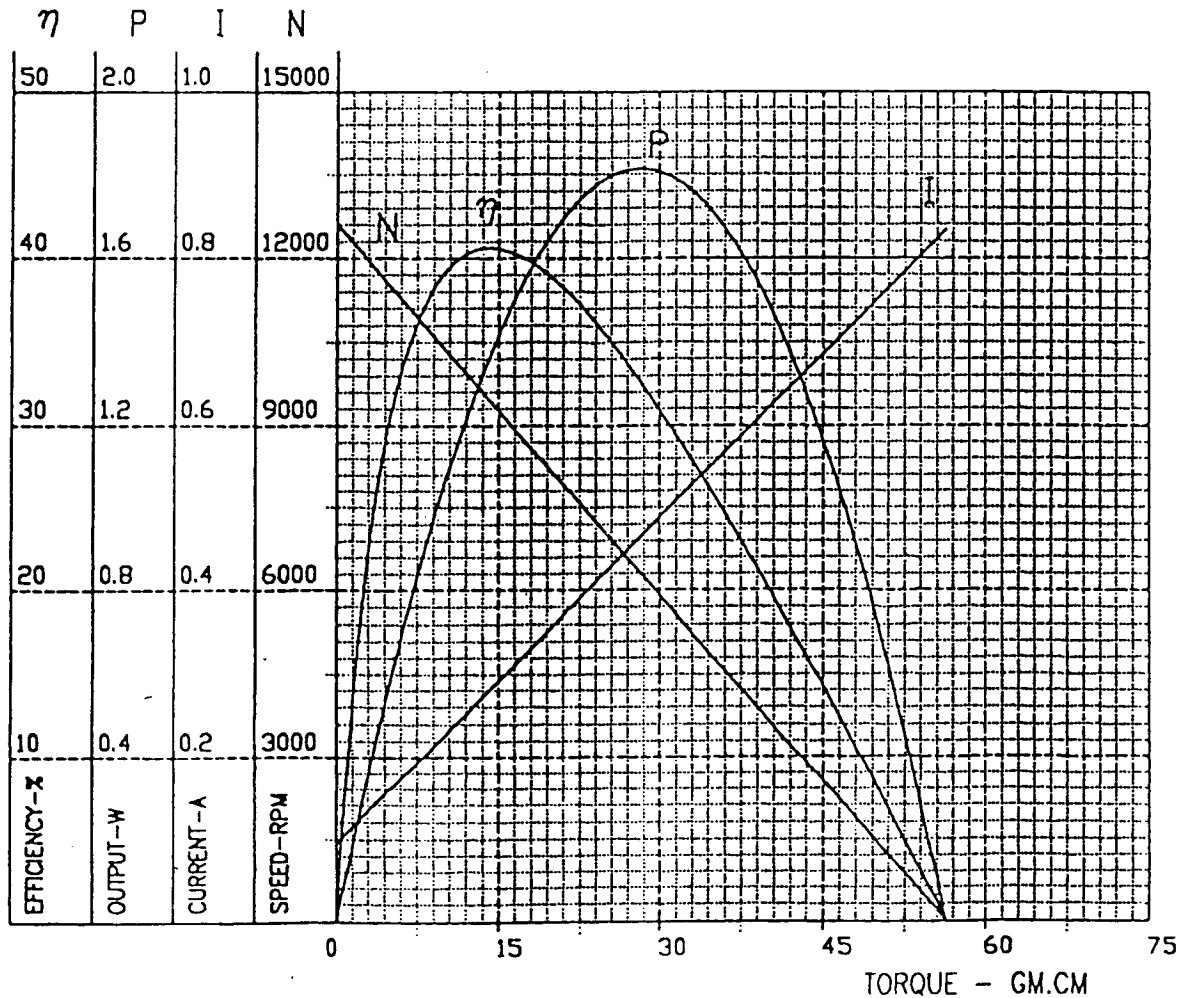


# MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:

MODEL: *S10(S)-10300-38RC*

VOLTAGE: *12.0 V*

**MOTRAXX**  
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### PERFORMANCE

#### AT NO LOAD

SPEED = 12600 RPM  
 CURRENT = 0.095 AMP

#### AT STALL EXTRAPOLATION

TORQUE = 56.3 G.CM  
 CURRENT = 0.834 AMP.

#### AT MAXIMUM EFFICIENCY:

EFFICIENCY = 40.64 %  
 SPEED = 9421 RPM  
 TORQUE = 14.2 G.CM  
 CURRENT = 0.281 AMP.  
 OUTPUT = 1.373 WATTS

#### AT MAXIMUM OUTPUT

SPEED = 6300 RPM  
 TORQUE = 28.2 G.CM  
 CURRENT = 0.417 AMP.  
 OUTPUT = 1.819 WATTS

### CHARACTERISTICS

TORQUE CONSTANT = 76.190 G.CM/AMP.  
 E.M.F CONSTANT = 8.059 mV/Rad/Sec  
 DYNAMIC RESISTANCE = 14.387 Ohms  
 MOTOR REGULATION = 223.750 RPM/G.CM

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

PREPARED BY: *[Signature]* CHECKED BY: *[Signature]*