

RoHS

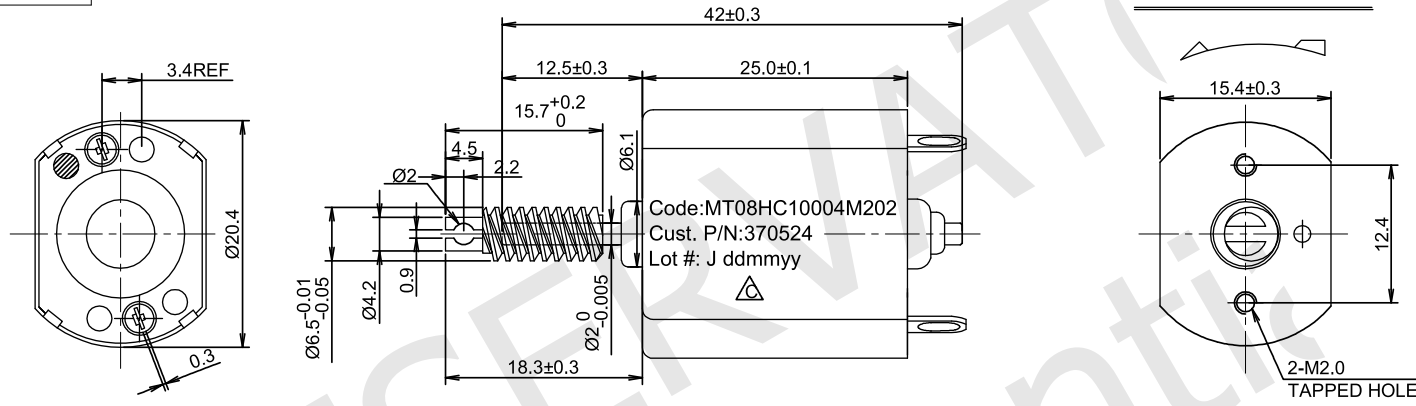
A

B

C

D

E



Performance (in an ambient temperature of 25-30 ° C)  
 Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of : 4.80 Volts  
 Direction : CCW

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At No Load  
 Speed : 7700 rpm  
 Current : 0.130 Amps

At stall (Extrapolated)  
 Torque : 70.0 g.cm  
 Current : 1.530 Amps

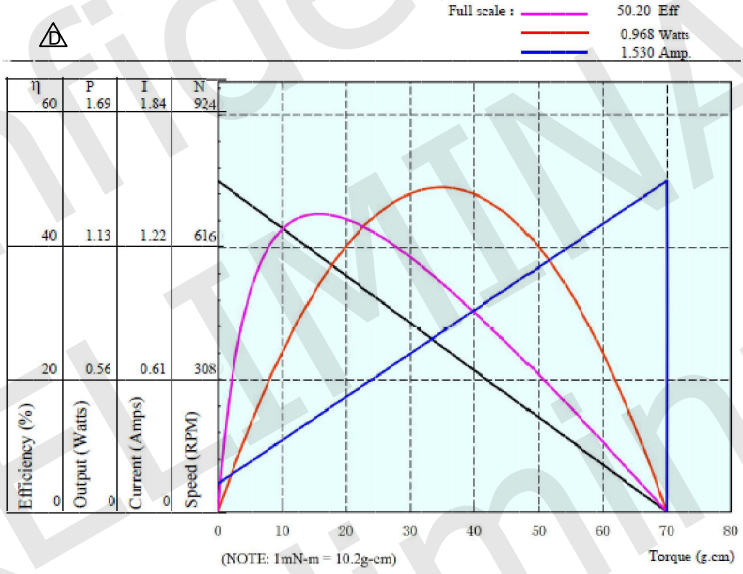
At maximum efficiency  
 Efficiency : 50.20 %  
 Torque : 15.80 g.cm  
 Speed : 5962 rpm  
 Current : 0.446 Amps  
 Output : 0.968 Watts

At maximum Power output  
 Output : 1.411 Watts  
 Torque : 35.0 g.cm  
 Speed : 3850 rpm  
 Current : 0.83 Amps

Characteristics  
 Torque constant : 50.000 g.cm/Amp  
 E.M.F. constant : 50.000 mV/rad/sec  
 Dynamic resistance : 3.1373 Ohms  
 Motor regulation : 110.00 rpm/g.cm

**MOTOR SPECIFICATIONS**

RATED VOLTAGE	4.8 V DC
OPERATING VOLTAGE RANGE	3.0-6.0 V DC
STARTING VOLTAGE	2.0V DC
NO LOAD CURRENT	0.16 A MAX
RATED LOAD CURRENT	0.38 A MAX
RATED POWER	
RATED TORQUE	
PEAK TORQUE	
RATED LOAD SPEED	6600±15% RPM
NOLOAD SPEED	7700±15% RPM
INSULATION CLASS	
IP CODE	
DIELECTRIC STRENGTH	
INSULATION RESISTANCE	1 Mohm min AT 100V DC
LINE TO LINE RESISTANCE	
LINE TO LINE INDUCTANCE	
ROTOR INERTIA	
BACK EMF	
OPERATING TEMPERATURE	
STORAGE TEMPERATURE	-20°C----+60°C
WEIGHT	30 g
RATED LOAD	10 G.CM
SHAFT END PLAY	0.05-0.5mm



UNIT: mm	DESIGN	Stm01934-00d
UNLESS OTHERWISE SPECIFIED TOLERANCES	CHECK	
DIMENSIONS : $\pm 0.3$ mm DEGREES : $\pm 5^\circ$	APPROVED	
ORTHOGRAPHIC PROJECTION	DATE	05 / 01 / 2022

REV	00a - First release.
	00b - Modified as samples.
	00c - Printed the label directly on motor.
	00d - Fixed the graph image.

LABELS (None)

**MT08HC10004M202**  
 DC BRUSHED MOTOR SPECIFICATION

