ENCODER RESOLUTION 1.25 μm 0.000049 IN
INTERMITTENT FORCE @10% DUTY CYCLE 18.6 N 67.0 OZ
CONTINUOUS FORCE 5.9 N 21.2 OZ
FORCE CONSTANT 4.4 N/A 15.9 OZ/A
BACK EMF CONSTANT 4.4 V/M/S 0.11 V/N/S
STROKE 12.7 mm 0.500 IN
MOVING MASS 39 GR 1.38 OZ
TOTAL MASS 170 GR 6.0 OZ
COIL RESISTANCE 4.5 Ohms
COIL INDUCTANCE @1000 Hz 1.7 mH
MAX CONTINUOUS POWER 8.0 W
MAX TOTAL SHAFT SIDE LOAD 2.0 N 7.2 OZ
LINEAR BEARING TYPE PLAIN BUSHING

3–MOTOR MAY BE SUPPLIED WITH OPTIONAL SPRINGS.
2–FOR PROPER HEAT DISSIPATION, THE MOTOR SHOULD BE MOUNTED ON A METALLIC BODY WITH ADEQUATE SURFACE AREA IN AN UNRESTRICTED FLOW OF AIR.
1–ALL VALUES AT 25°C

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NOTES:
UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES (mm)
TOLERANCES ON:
DECIMALS FRACTIONS ANGLES
3.00.xxx 1/125 ± 1/2
±0.005±0.01
UNLESS OTHERWISE SPECIFIED

MATERIAL

CONTRACT
DRN CHKD
APPVD

APPLICATION

SCALE: 1 / 1 SHEET 1 OF 1

COLOR DESCRIPTION
ORANGE +5 Vdc POWER FOR OPTICAL ENCODER
GREEN CHANNEL A– OUTPUT OF OPTICAL ENCODER, TTL
BLUE CHANNEL A+ OUTPUT OF OPTICAL ENCODER, TTL
WHITE CHANNEL B+ OUTPUT OF OPTICAL ENCODER, TTL
BLACK RETURN FOR OPTICAL ENCODER
RED MOTOR MINUS
GRAY MOTOR PLUS
GRAY HOME INDICATOR, TTL, ACTIVE HIGH