ENCODER RESOLUTION 5.00 um 0.000197 IN
INTERMITTENT FORCE 310% DUTY CYCLE 107.2 N 24.1 LB
CONTINUOUS FORCE 33.9 N 7.6 LB
FORCE CONSTANT 16.4 N/A 3.69 LB/A
BACK EMF CONSTANT 16.4 V/M/S 0.417 V/IN/S
STROKE 25.4 mm 1.000 IN
MOVING MASS 248 GR 0.55 Lb
TOTAL MASS 970 GR 2.14 Lb
COIL RESISTANCE 4.7 Ohms
COIL INDUCTANCE @ 1000 Hz 4.6 mH
MAX CONTINUOUS POWER 20.0 W
MAX TOTAL SHAFT SIDE LOAD 24.0 N 5.4 Lb
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
NOTES:
UNLESS OTHERWISE SPECIFIED

WIRE 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
YELLOW CHANNEL B- OUTPUT OF OPTICAL ENCODER, TTL
BROWN RETURN FOR OPTICAL ENCODER AND THERMISTOR
BLACK MOTOR MINUS
RED MOTOR PLUS
GRAY HOME INDICATOR, TTL, ACTIVE HIGH
PURPLE THERMISTOR RELATIVE TO RETURN

MOTOCONT
LINEAR DIRECT DRIVE MOTOR
WITH BUILT-IN ENCODER

DIMENSIONS ARE IN INCHES (mm)
TOLERANCES ON:
DECIMALS FRACTIONS ANGLES
.000 .001 ± 1/125 ± 1/2
.005 ± .01
UNLESS OTHERWISE SPECIFIED

MATERIAL
FINISH

DRN
CHKD
APPVD
APPVD

SOLM-051-095-01-05
REV. 3

SCALE: 1 / 1 SHEET 1 OF 1