

4

3

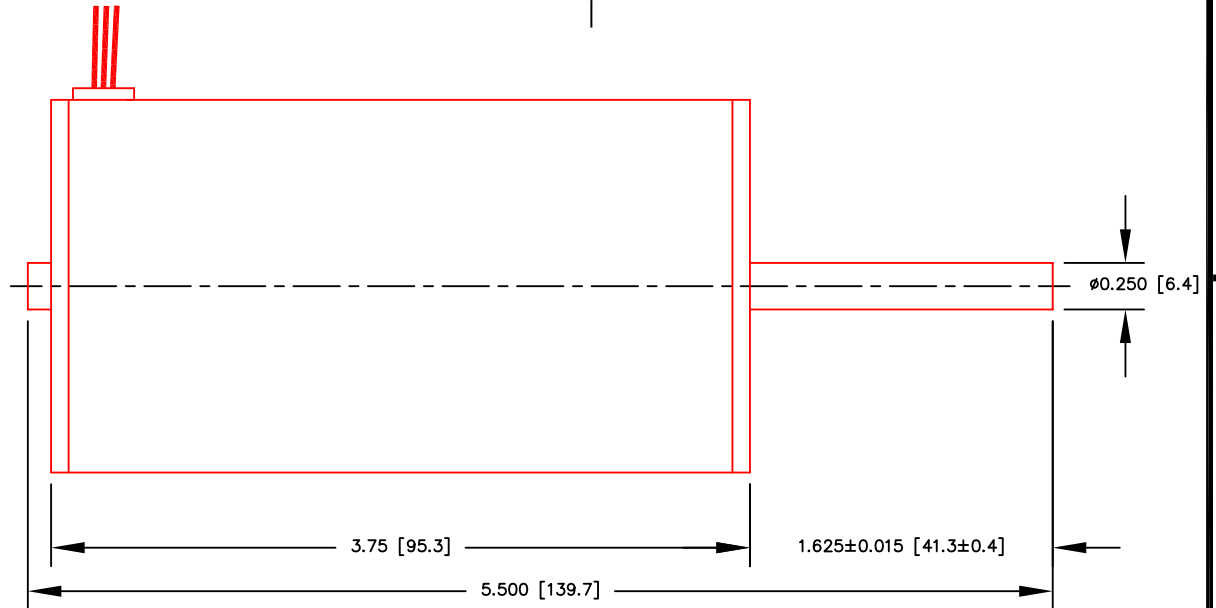
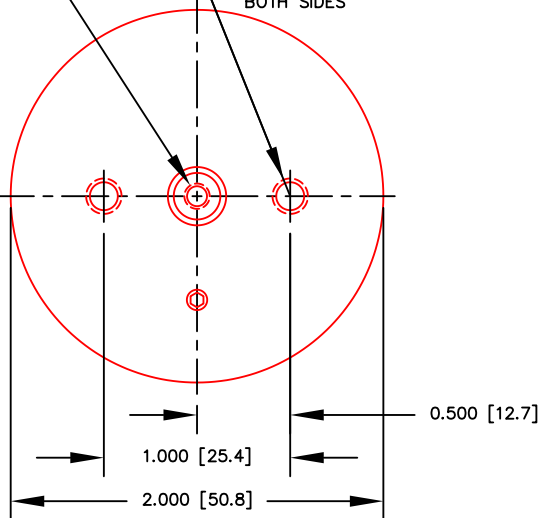
2

1

SHOWN IN FORWARD EXTENDED SHAFT POSITION

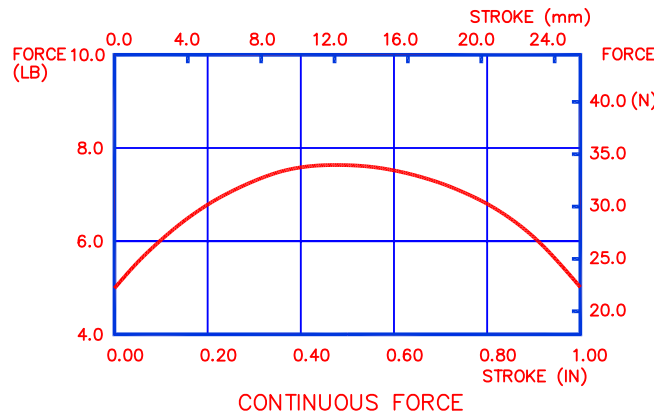
REVISIONS

ZONE	LETTER	DESCRIPTION	DATE	CHECKED	APPROVED

6-32 UNC-2B X 0.40 [10.1] MIN DP  
BOTH SIDES10-32 UNF-2B X 0.40 [10.1] MIN DP (2)  
BOTH SIDES

ENCODER RESOLUTION	5.00 um	0.000197 IN
INTERMITTENT FORCE @10% 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	

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



THIS DOCUMENT, WHETHER OR NOT MARKED AS PROPRIETARY, IS CONSIDERED CONFIDENTIAL AND SHALL REMAIN THE PROPERTY OF MOTICONT AND SHALL BE RETURNED TO MOTICONT UPON REQUEST WITH ALL COPIES MADE THEREOF. THIS DOCUMENT CANNOT BE UTILIZED IN THE MANUFACTURE OF ARTICLES SOLD OR OFFERED OR DISCLOSED TO ANYONE AND NO USE OF IT CAN BE MADE UNLESS EXPRESSLY AUTHORIZED BY AND UNDER THE DIRECTION OF MOTICONT. POSSESSION OF THIS DOCUMENT IS ACCEPTED SUBJECT TO THE FOREGOING.

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

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

USED ON	NEXT ASSY
APPLICATION	

MATERIAL

FINISH

CONTRACT

DRN

CHKD

APPVD

APPVD

motiCont

LINEAR DIRECT DRIVE MOTOR  
WITH BUILT-IN ENCODER

SIZE	CODE	DWG. NO.	REV.
A		SDLM-051-095-01-05	2

SCALE: 1 / 1 SHEET 1 OF 1