

4

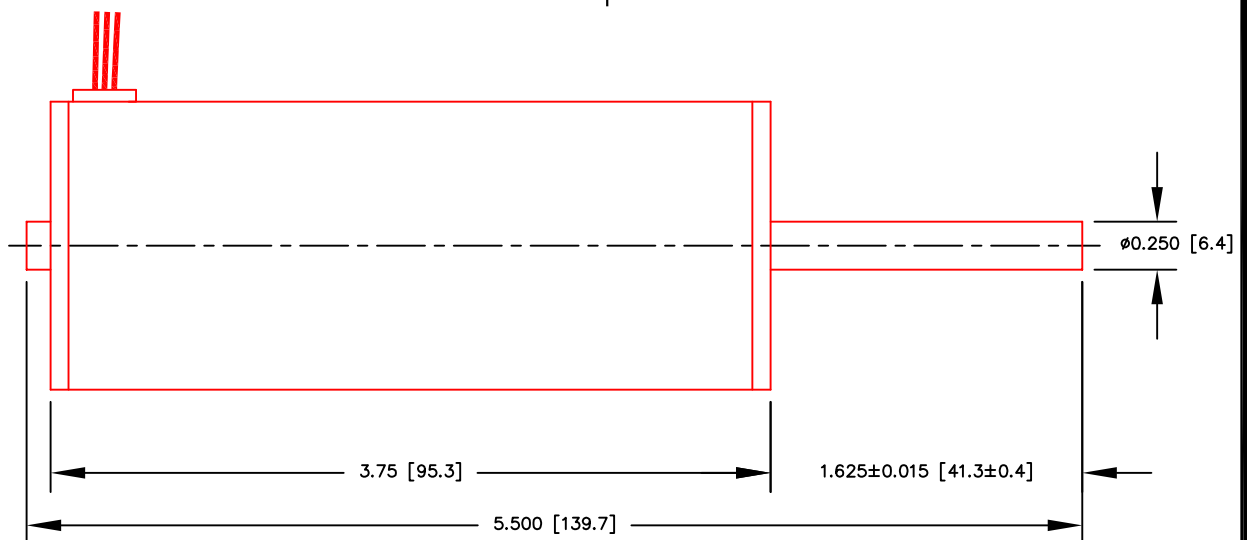
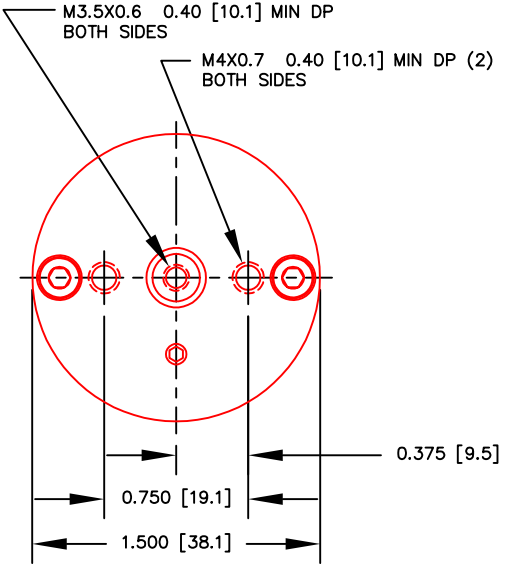
3

2

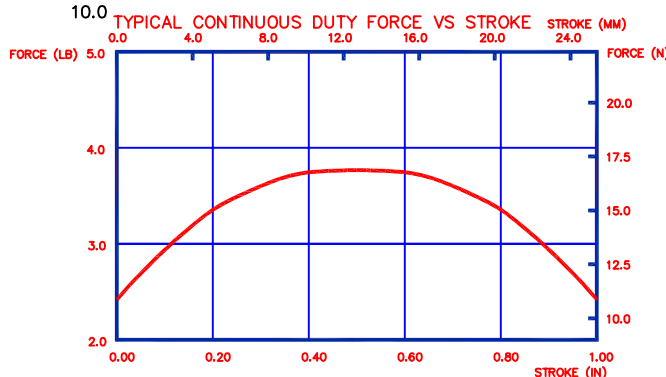
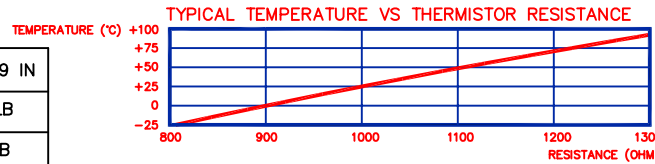
1

SHOWN IN FORWARD EXTENDED SHAFT POSITION

REVISIONS					
ZONE	LETTER	DESCRIPTION	DATE	CHECKED	APPROVED



ENCODER RESOLUTION	1.25 um	0.000049 IN
INTERMITTENT FORCE @10% DUTY CYCLE	52.9 N	11.9 LB
CONTINUOUS FORCE	16.8 N	3.8 LB
FORCE CONSTANT	7.15 N/A	1.61 LB/A
BACK EMF CONSTANT	7.15 V/M/S	0.182 V/IN/S
STROKE	25.4 mm	1.00 IN
MOVING MASS	168 GR	0.37 Lb
TOTAL MASS	550 GR	1.22 Lb
COIL RESISTANCE	3.1 Ohms	
COIL INDUCTANCE @ 1000 Hz	2.2 mH	
MAX CONTINUOUS POWER	13 W	
MAX TOTAL SHAFT SIDE LOAD	24.0 N	5.4 Lb
LINEAR BEARING TYPE	PLAIN BUSHING	



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

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	CONTRACT
FINISH	DRN
	CHKD
	APPVD
	APPVD

motiCONT			
LINEAR DIRECT DRIVE MOTOR WITH BUILT-IN ENCODER			
SIZE	CODE	DWG. NO.	REV.
A		SDLM-038-095-01-01M	1
SCALE: 1 / 1		SHEET 1 OF 1	

4

3

2

1