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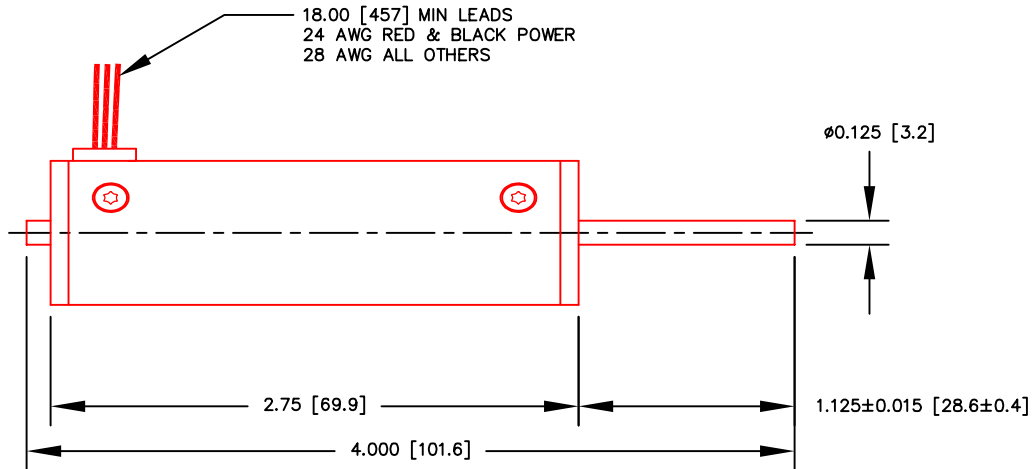
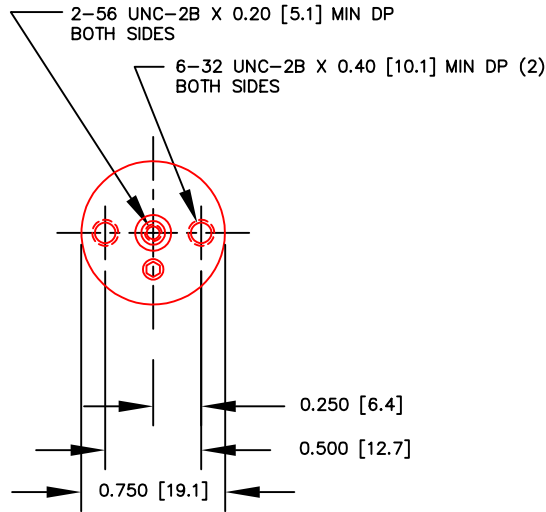
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SHOWN IN FORWARD EXTENDED SHAFT POSITION

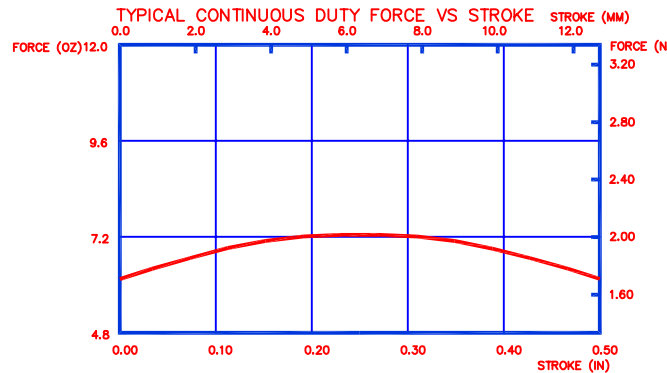
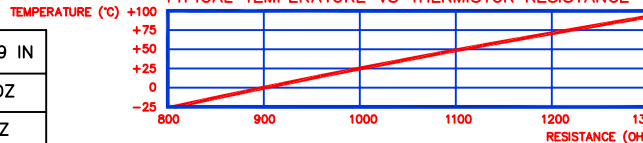
REVISIONS

ZONE	LETTER	DESCRIPTION	DATE	CHECKED	APPROVED



ENCODER RESOLUTION	1.25 μ m	0.000049 IN
INTERMITTENT FORCE @10% DUTY CYCLE	6.4 N	23.0 OZ
CONTINUOUS FORCE	2.0 N	7.3 OZ
FORCE CONSTANT	2.49 N/A	8.95 OZ/A
BACK EMF CONSTANT	2.49 V/M/S	0.06 V/IN/S
STROKE	12.7 mm	0.500 IN
MOVING MASS	23 GR	0.81 OZ
TOTAL MASS	91 GR	3.2 OZ
COIL RESISTANCE	9.1 Ohms	
COIL INDUCTANCE @ 1000 Hz	1.6 mH	
MAX CONTINUOUS POWER	6.0 W	
MAX TOTAL SHAFT SIDE LOAD	2.0 N	7.2 OZ
LINEAR BEARING TYPE	PLAIN BUSHING	

TYPICAL TEMPERATURE VS THERMISTOR RESISTANCE



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 ANALOG OUTPUT
PURPLE	THERMISTOR RELATIVE TO RETURN, 5mA MAX

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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	$\pm 1/125 \pm 1/2'$
$\pm .005 \pm .01$	
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-019-070-01-01	2
SCALE: 1 / 1		SHEET 1 OF 1	

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