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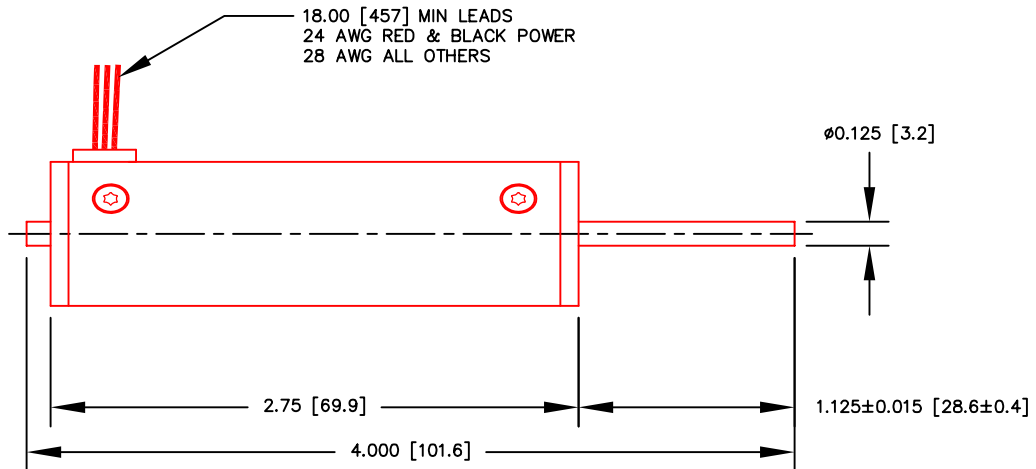
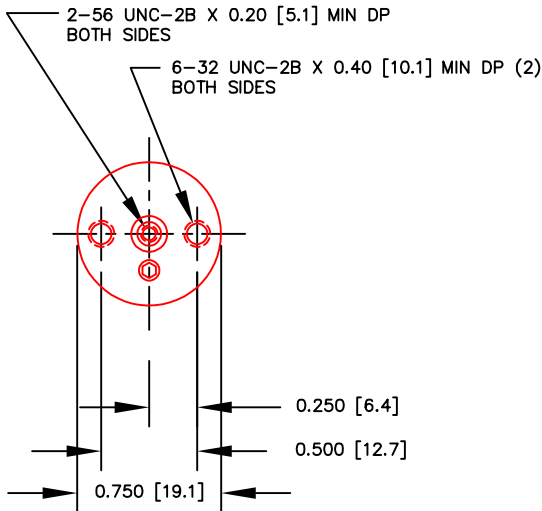
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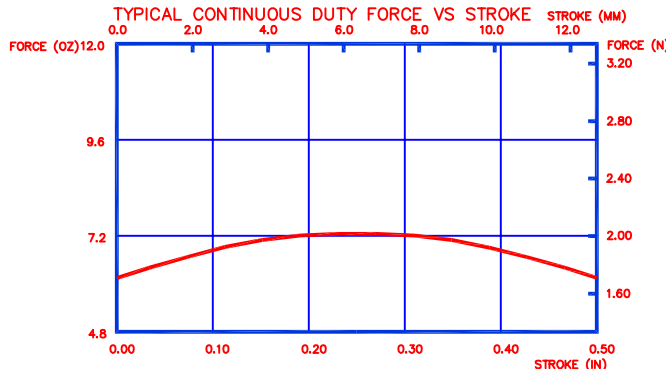
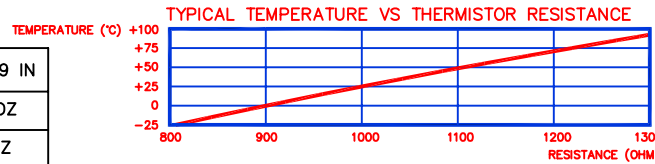
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SHOWN IN FORWARD EXTENDED SHAFT POSITION

REVISIONS					
ZONE	LETTER	DESCRIPTION	DATE	CHECKED	APPROVED



ENCODER RESOLUTION	1.25 $\mu$ 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	



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, 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
.XXX	.XX
±.005±.01	± 1/125 ± 1/2"
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-019-070-01-01	1
SCALE: 1 / 1		SHEET 1 OF 1	

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