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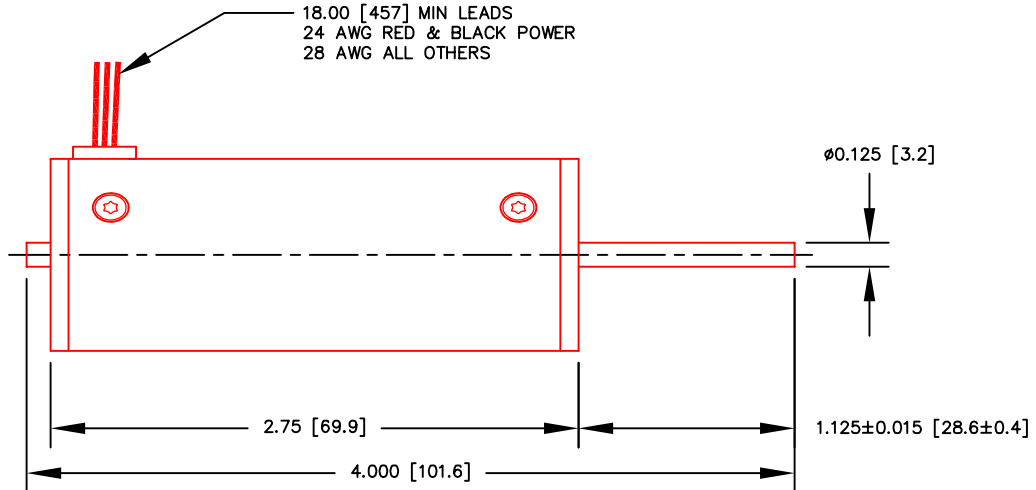
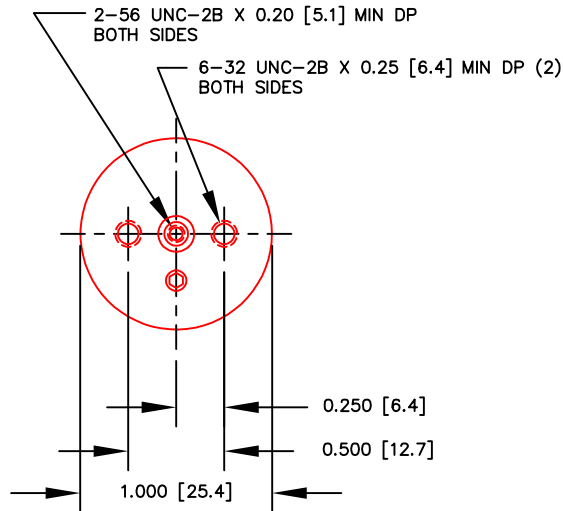
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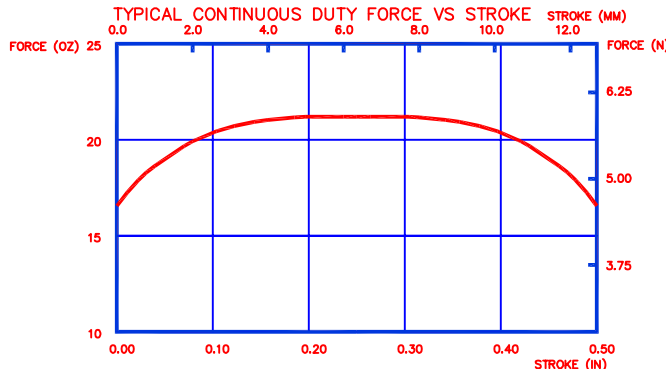
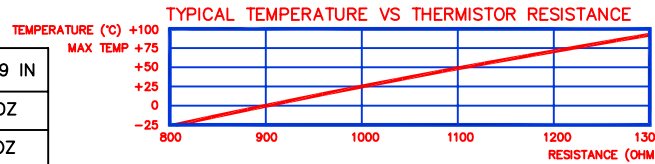
SHOWN IN FORWARD EXTENDED SHAFT POSITION

REVISIONS

ZONE	LETTER	DESCRIPTION	DATE	CHECKED	APPROVED



ENCODER RESOLUTION	1.25 um	0.000049 IN
INTERMITTENT FORCE @10% DUTY CYCLE	18.6 N	67.0 OZ
CONTINUOUS FORCE	5.9 N	21.2 OZ
FORCE CONSTANT	4.4 N/A	15.9 OZ/A
BACK EMF CONSTANT	4.4 V/M/S	0.11 V/IN/S
STROKE	12.7 mm	0.500 IN
MOVING MASS	39 GR	1.38 OZ
TOTAL MASS	170 GR	6.0 OZ
COIL RESISTANCE	4.5 Ohms	
COIL INDUCTANCE @ 1000 Hz	1.7 mH	
MAX CONTINUOUS POWER	8.0 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

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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. MAX OPERATING TEMPERATURE: 75°C
 1-ALL VALUES AT 25°C

NOTES :
 UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES (mm)	
TOLERANCES ON:	
DECIMALS	FRACTIONS
.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-025-070-01-01	5
SCALE: 1 / 1		SHEET 1 OF 1	

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