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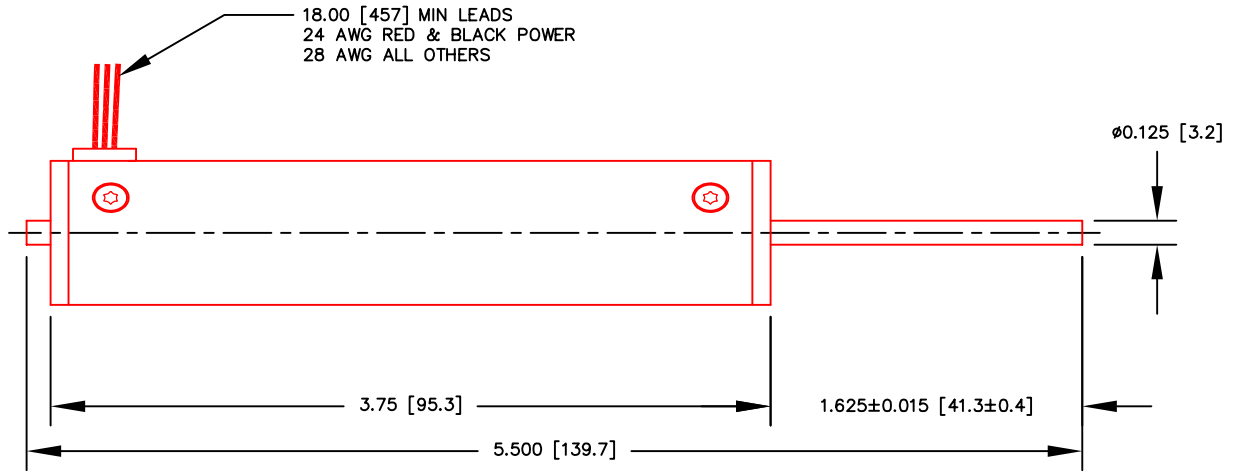
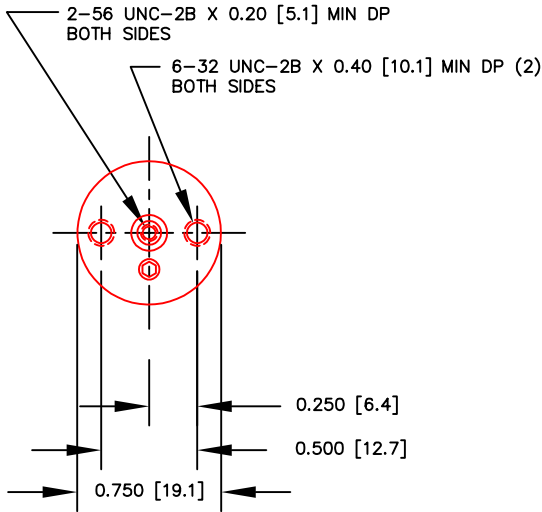
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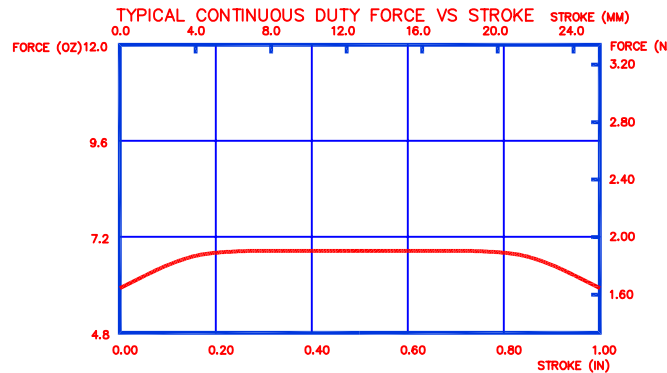
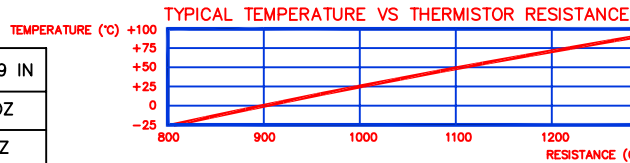
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SHOWN IN FORWARD EXTENDED SHAFT POSITION

REVISIONS					
ZONE	LETTER	DESCRIPTION	DATE	CHECKED	APPROVED



ENCODER RESOLUTION	1.25 μ m	0.000049 IN
INTERMITTENT FORCE @10% DUTY CYCLE	6.0 N	21.6 OZ
CONTINUOUS FORCE	1.9 N	6.8 OZ
FORCE CONSTANT	2.64 N/A	9.49 OZ/A
BACK EMF CONSTANT	2.64 V/M/S	0.07 V/IN/S
STROKE	25.4 mm	1.000 IN
MOVING MASS	32 GR	1.13 OZ
TOTAL MASS	125 GR	4.4 OZ
COIL RESISTANCE	15.3 Ohms	
COIL INDUCTANCE @ 1000 Hz	2.8 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 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	± 1/125 ± 1/2°
± .005 ± .01 UNLESS OTHERWISE SPECIFIED	
USED ON	NEXT ASSY
APPLICATION	

MATERIAL	CONTRACT
FINISH	DRN
	CHKD
	APPVD
	APPVD

DRN	
CHKD	
APPVD	
APPVD	

MOTICONT			
LINEAR DIRECT DRIVE MOTOR WITH BUILT-IN ENCODER			
SIZE	CODE	DWG. NO.	REV.
A		SDLM-019-095-01-01	1
SCALE: 1 / 1		SHEET 1 OF 1	

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