

MOTOR MODEL NO.: GM4040-41		
CONFIG. CODE: GM4040-41-00406811-343A		
MOTOR CONSTANTS	UNITS	VALUE
CONTINUOUS STALL TORQUE	IN-LB	31.3
PEAK TORQUE	IN-LB	156.5
TORQUE CONSTANT (K _T)	IN-LB/AMPS	3.44
R _A *	OHMS	0.8
INDUCTANCE (L _A)*	MHY	5.60
BEMF *	VOLTS/1000 RPM	41
MAXIMUM SPEED	RPM	3500
INERTIA (J _A)	IN-LB-SEC ²	0.01630
TACHOMETER OUTPUT	VOLTS/1000 RPM	N/A
TACHOMETER RIPPLE	PERCENT	N/A
WEIGHT	LB/KG	-

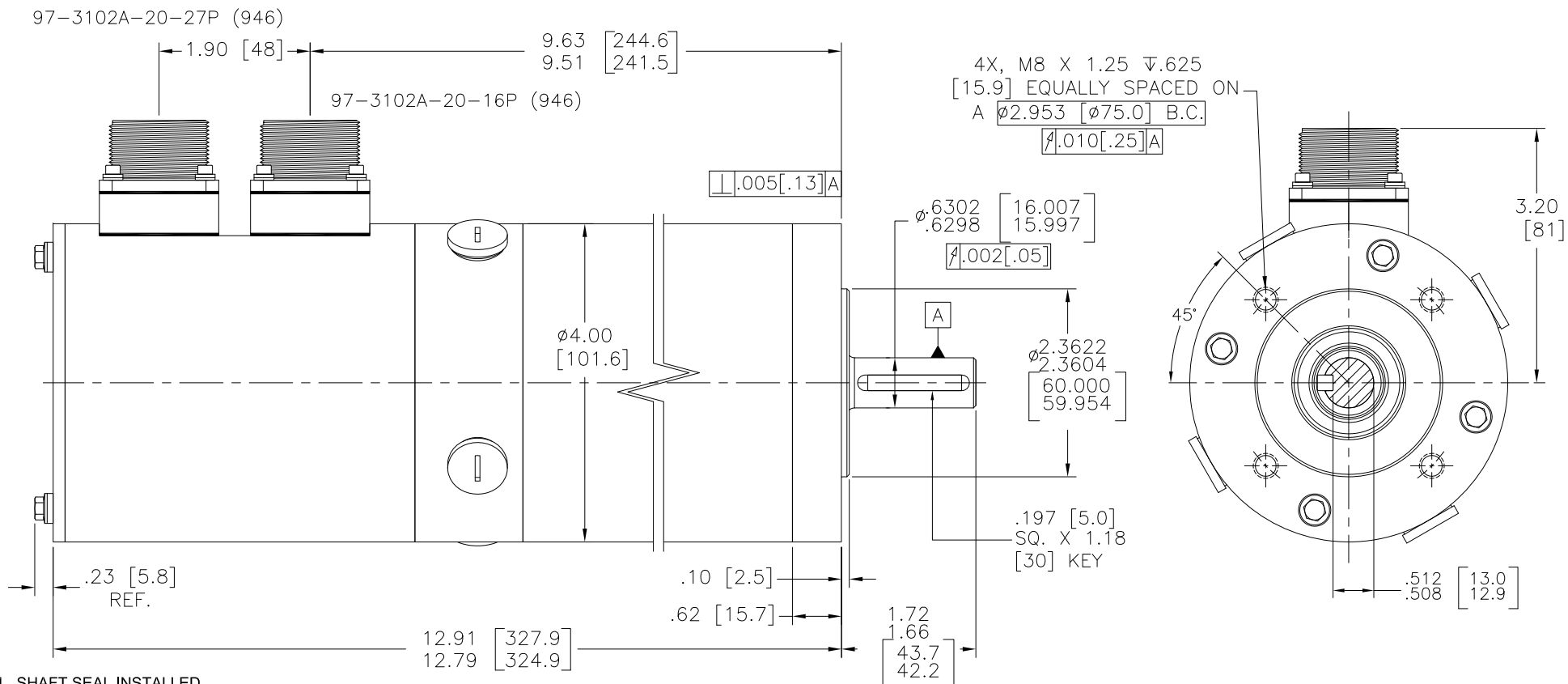
PIN	FUNCTION	PIN	FUNCTION
A	ENCODER SHIELD	H	N/C
B	N/C	I	N/C
C	N/C	J	CHANNEL B-
D	CHANNEL Z+	K	N/C
E	CHANNEL B+	L	CHANNEL Z-
F	ENCODER COMMON	M	ENC. +5VDC
G	CHANNEL A+	N	CHANNEL A-

PIN	FUNCTION	PIN	FUNCTION
A	N/C	F	N/C
B	N/C	G	N/C
C	TEMP. SW.	H	MOTOR +
D	TEMP. SW.	I	MOTOR -
E	N/C		

REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECO	DATE	CHANGED	APPD
-	A	INITIAL DRAWING RELEASE	4975	31JUL18	K. HALE	R.D.M.

ENCODER'S DATA CHART	
LINE COUNT	1000 PPR
FREQUENCY RESPONSE	200 kHz MAX. (UP TO 85 °C) 100 kHz MAX. (UP TO 100 °C)
RISE AND FALL TIME	100 nSEC. MAX.
FRICTION TORQUE	5.9 X 10 ⁻³ N • m MAX. (60 g • cm MAX.)
ROTOR MOMENT OF INERTIA	1 X 10 ⁻⁶ kg • m ² MAX. (10 g • cm ² MAX.)
MAX. SPEED	100 S ⁻¹ (6000 RPM)
OPERATING TEMP. RANGE	-20 °C ~ +100 °C
STORAGE TEMP. RANGE	-25 °C ~ +100 °C
VIBRATION (TEST ARTICLES)	49 m/S ² (5 G) 10 ~ 500 Hz.
SHOCK (TEST ARTICLES)	490 m/S ² (50 G) 11 mSEC.

* INDICATES ±10%



- SHAFT SEAL INSTALLED.
- MOTOR FINISH: BLACK.
- 2 INCHES [MILLIMETERS].
- WITH A POSITIVE VOLTAGE APPLIED TO PIN# "H" (RED MOTOR LEAD) WITH RESPECT TO PIN # "I" (BLACK MOTOR LEAD), THE MOTOR DRIVE SHAFT WILL TURN IN THE "CW" (CLOCKWISE) DIRECTION AS VIEWED FROM THE SHAFT END.

NOTE: UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVAL	DATE
TOLERANCES ARE AS FOLLOWS: DECIMAL: .XX = ±0.01 XXX = ±0.005 ANGULAR: < = ±0.5°	DWN BY: K. HALE	31JUL18
FINISH: 125 ✓ MAXIMUM	CHK BY: R.D.M.	31JUL18
	APP BY: R.D.M.	31JUL18

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DRAWING TITLE
INSTALLATION DRAWING

SIZE	MODEL	DRAWING NUMBER	REV
C	GM4040-41	30113-1	A
SCALE: 1:1	FILE NAME:	30113-1RA.DWG	SHEET 1 OF 1
CONFIGURATION CODE: GM4040-41-00406811-343A			

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