

MOTOR MODEL NO.: GM4040-41		
CONFIG. CODE: GM4040-41-02406101-321A		
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	7
TACHOMETER RIPPLE	PERCENT	1
WEIGHT	LB/KG	-

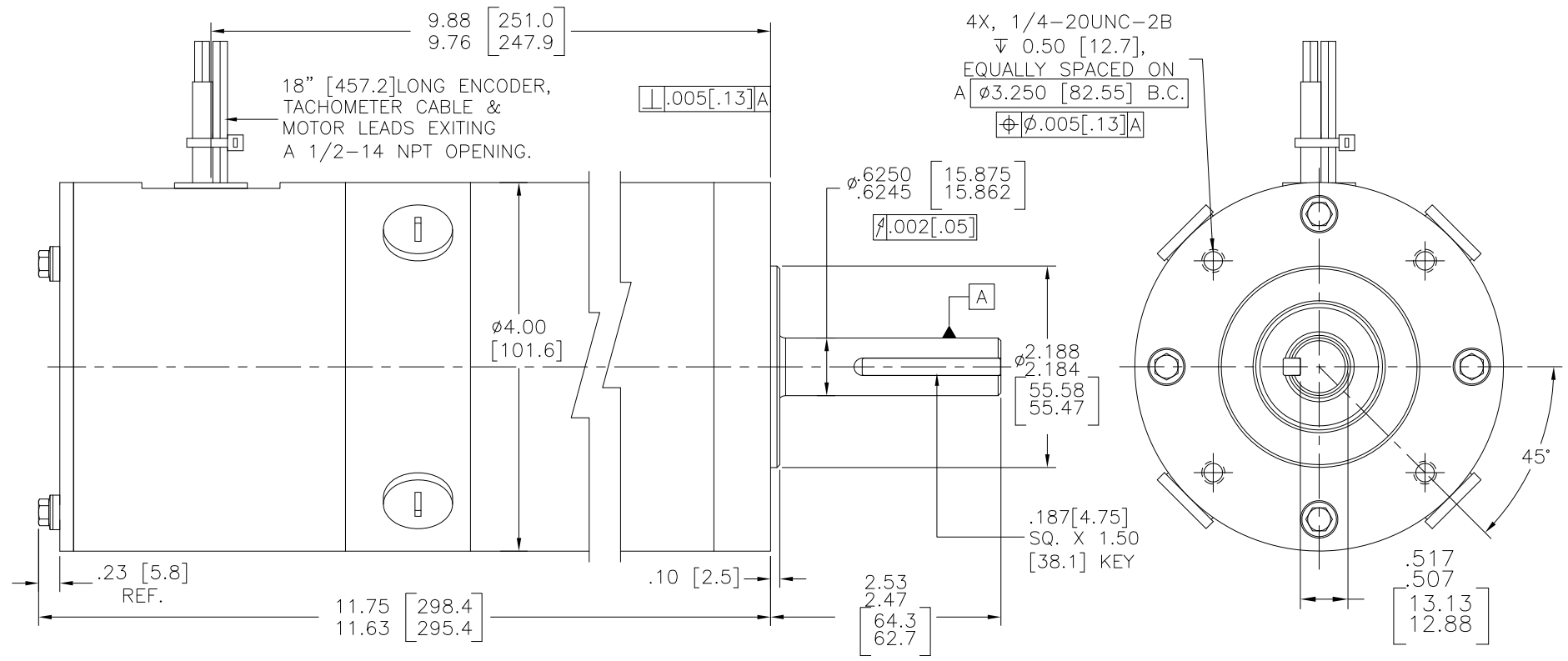
ENCODER - TACH. - MOTOR	
COLOR	FUNCTION
GREEN	CHANNEL A+
GREEN/BLACK	CHANNEL A-
BLUE	CHANNEL B+
BLUE/BLACK	CHANNEL B-
YELLOW	CHANNEL Z+
YELLOW/BLACK	CHANNEL Z-
RED	+5 VDC
BLACK	ENCODER COMMON
SHIELD	ENCODER SHIELD
CLEAR	TACHOMETER +
BLACK	TACHOMETER -
SHIELD	TACH. CABLE SHIELD
RED	MOTOR +
BLACK	MOTOR -

REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECO	DATE	CHANGED	APPD
-	A	INITIAL DRAWING RELEASE	4504	3FEB15	M. TAGUPA	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.
FRICITION 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.

DC TACHOMETER'S DATA CHART	
SENSITIVITY	7.0 V/1000 RPM ±10% 0.067 V/RAD/SEC ±10%
RIPPLE VOLTAGE	1% AVERAGE TO PK
DC RESISTANCE	70 OHMS ±12.5%
INDUCTANCE	12
MIN. LOAD RESISTANCE	7000 OHMS
MAX. OPERATING SPEED	5000 RPM

* INDICATES ±10%



4. SHAFT SEAL REQUIRED.
 3. MOTOR FINISH: BLACK.
 2. INCHES [MILLIMETERS].
 1. WITH A POSITIVE VOLTAGE APPLIED TO THE RED MOTOR LEAD WITH RESPECT TO THE BLACK MOTOR LEAD, THE MOTOR DRIVE SHAFT WILL TURN IN THE "CCW" (COUNTER 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: M. TAGUPA	3FEB15
FINISH: 125 ✓ MAXIMUM	CHK BY: R.D.M.	3FEB15
	APP BY: R.D.M.	3FEB15

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DRAWING TITLE
INSTALLATION DRAWING

SIZE	MODEL	DRAWING NUMBER	REV
C	GM4040-41	7587-1	A

SCALE: 1:125:1 FILE NAME: 7587-1RA.DWG SHEET 1 OF 1
CONFIGURATION CODE: GM4040-41-02406101-321A

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