

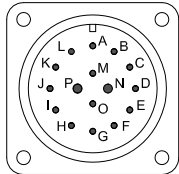
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MOTOR MODEL NO.: GM4050-38		
CONFIG. CODE: GM4050-38-02402511-344A		
MOTOR CONSTANTS	UNITS	VALUE
CONTINUOUS STALL TORQUE	IN-LB	41.3
PEAK TORQUE	IN-LB	206.5
TORQUE CONSTANT (K _T)	IN-LB/AMPS	3.21
R _A *	OHMS	0.6
INDUCTANCE (L _A)*	MHY	4.40
BEMF *	VOLTS/1000 RPM	38
MAXIMUM SPEED	RPM	3500
INERTIA (J _A)	IN-LB-SEC ²	0.01980
TACHOMETER OUTPUT	VOLTS/1000 RPM	7
TACHOMETER RIPPLE	PERCENT	1
WEIGHT	LB/KG	-



ACC02E24-7P-025

PIN	FUNCTION	PIN	FUNCTION
A	CHANNEL A+	I	ENCODER COMMON
B	CHANNEL A-	J	N/C
C	CHANNEL B-	K	ENCODER SHIELD
D	CHANNEL B+	L	TACH. SHIELD
E	CHANNEL Z+	M	TACH. C.C.W. (+)
F	CHANNEL Z-	N	MOTOR C.C.W. (-)
G	N/C	O	TACH. C.C.W. (-)
H	ENCODER +5V	P	MOTOR C.C.W. (+)

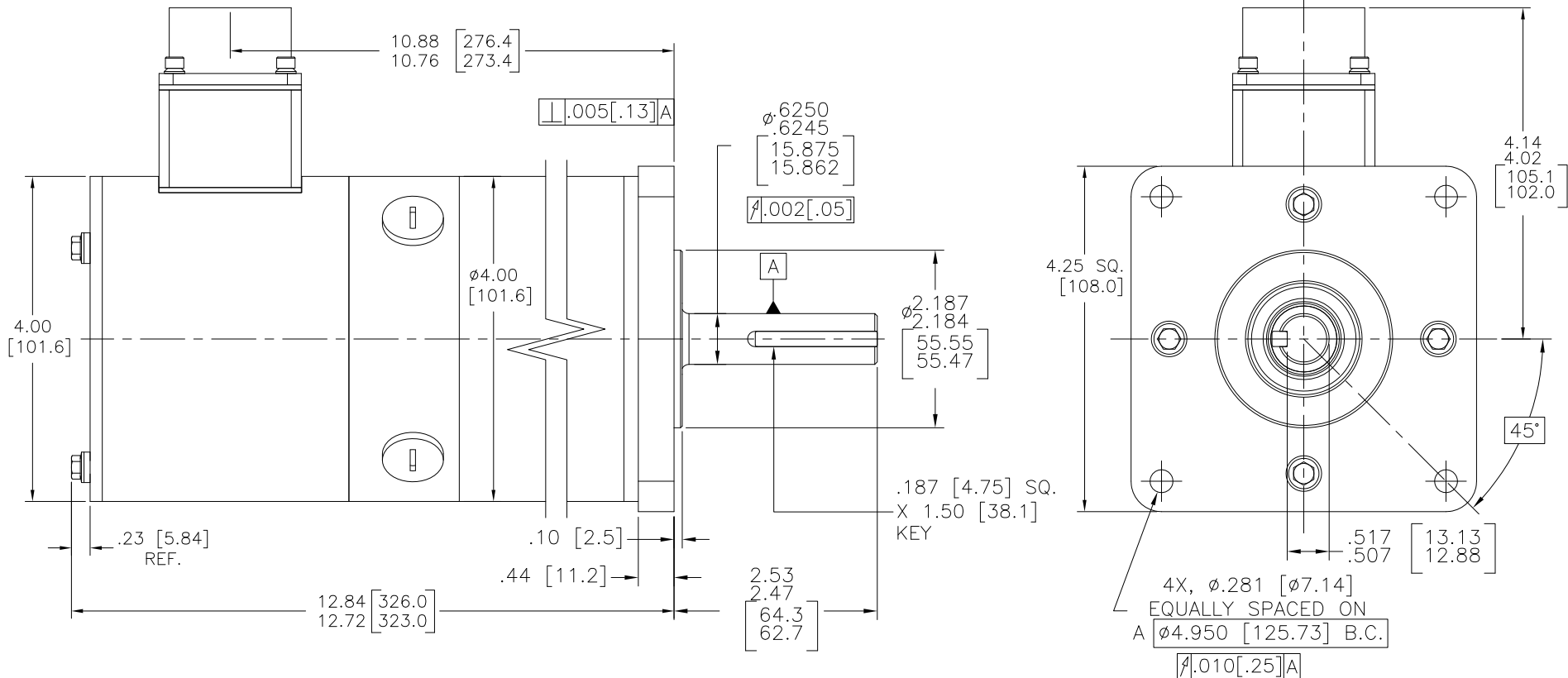
REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECO	DATE	CHANGED	APPD
-	A	INITIAL DRAWING RELEASE	-	4DEC20	K. HALE	R.D.M.

ENCODER'S DATA CHART	
LINE COUNT	1000 PPR
FREQUENCY RESPONSE	500 kHz
ROTOR MOMENT OF INERTIA	1.5 X 10 ⁻⁴ OZ-IN-S ²
MAX. SPEED	8000 RPM
OPERATING TEMP. RANGE	-20 °C ~ +100 °C
STORAGE TEMP. RANGE	-40 °C ~ +125 °C
VIBRATION	20 G @ 50 TO 500 CPS
SHOCK	490 m/S ² (50 G) 11 mSEC.

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

* INDICATES ±10%

* TACHOMETER VOLTAGE OUTPUT WHEN MOTOR ROTATE AS IN NOTE 1.



4. SHAFT SEAL INSTALLED.
 3. MOTOR FINISH: BLACK.
 2. INCHES [MILLIMETERS].
 1. WITH A POSITIVE VOLTAGE APPLIED TO PIN P (RED MOTOR LEAD) WITH RESPECT TO PIN N (BLACK MOTOR LEAD), THE MOTOR DRIVE SHAFT WILL TURN IN THE "CCW" DIRECTION AS VIEWED FROM THE SHAFT END.
- NOTE: UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVAL	DATE
	DWN BY: K. HALE	4DEC20
TOLERANCES ARE AS FOLLOWS:	CHK BY: R.D.M.	4DEC20
DECIMAL: .XX = ±0.01	APP BY: R.D.M.	4DEC20
XXX = ±0.005		
ANGULAR: < = ±0.5°		
FINISH: 125 ✓ MAXIMUM		

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DRAWING TITLE
INSTALLATION DRAWING

SIZE C	MODEL GM4050-38	DRAWING NUMBER 30227-1	REV A
SCALE: 1:1	FILE NAME: 30227-1RA.DWG	SHEET 1 OF 1	

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