

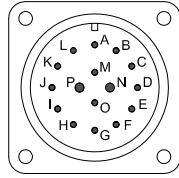
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MOTOR MODEL NO.: <b>GM4050-38</b>		
CONFIG. CODE: <b>GM4050-38-02202511-344A</b>		
MOTOR CONSTANTS	UNITS	VALUE
CONTINUOUS STALL TORQUE	IN-LB	<b>41.3</b>
PEAK TORQUE	IN-LB	<b>206.5</b>
TORQUE CONSTANT (K <sub>T</sub> )	IN-LB/AMPS	<b>3.21</b>
R <sub>A</sub> *	OHMS	<b>0.6</b>
INDUCTANCE (L <sub>A</sub> )*	MHY	<b>4.40</b>
BEMF *	VOLTS/1000 RPM	<b>38</b>
MAXIMUM SPEED	RPM	<b>3500</b>
INERTIA (J <sub>A</sub> )	IN-LB-SEC <sup>2</sup>	<b>0.01980</b>
TACHOMETER OUTPUT	VOLTS/1000 RPM	<b>7</b>
TACHOMETER RIPPLE	PERCENT	<b>1</b>
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. (+)

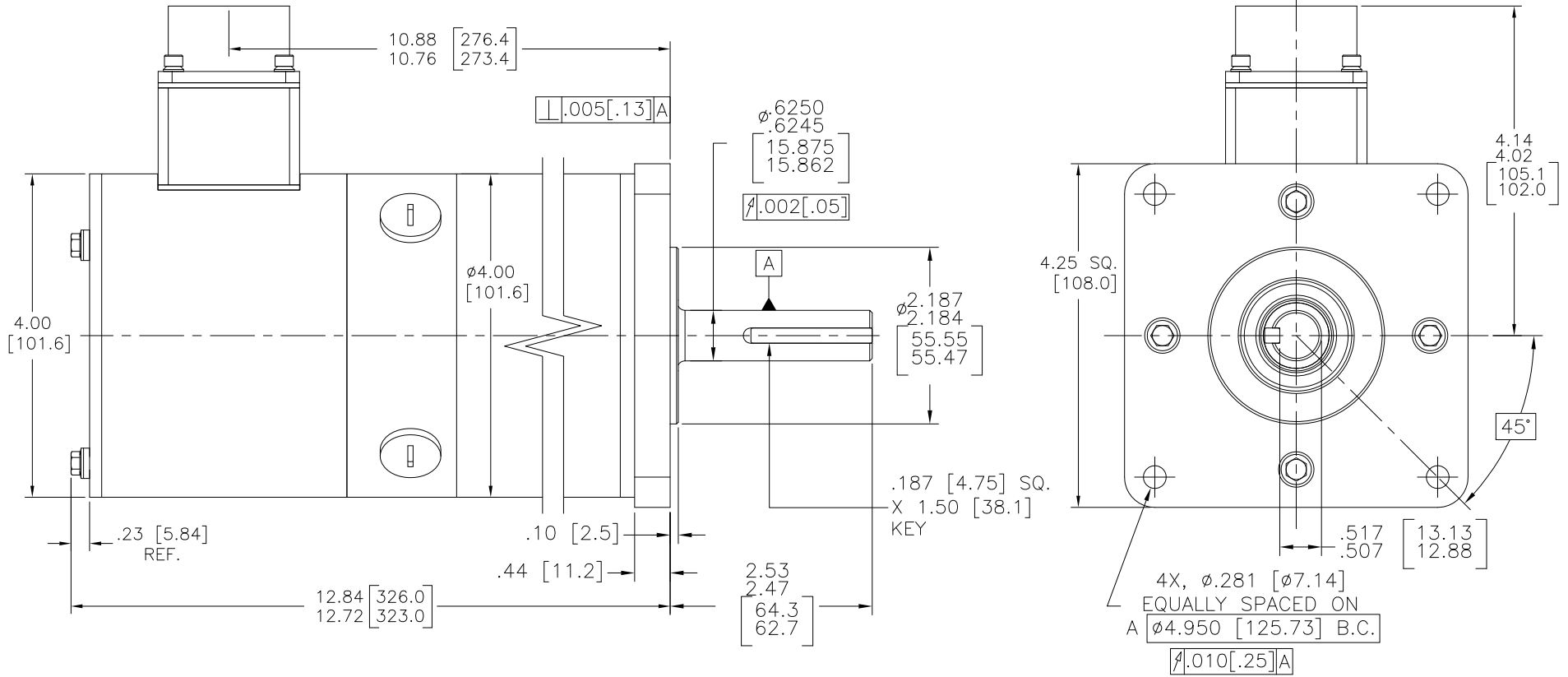
REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECO	DATE	CHANGED	APPD
-	A	INITIAL DRAWING RELEASE	5170	10JUL19	K. HALE	R.D.M.

ENCODER'S DATA CHART	
LINE COUNT	500 PPR
FREQUENCY RESPONSE	500 kHz
ROTOR MOMENT OF INERTIA	1.5 X 10 <sup>-4</sup> OZ-IN-S <sup>2</sup>
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 <sup>2</sup> (50 G) 11 mSEC.

DC TACHOMETER'S DATA CHART	
SENSITIVITY	7.0 V/1000 RPM ±10%
DC RESISTANCE	1% AVERAGE TO PK
INDUCTANCE	70 OHMS ±12.5%
MIN. LOAD RESISTANCE	12
MAX. OPERATING SPEED	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	10JUL19
TOLERANCES ARE AS FOLLOWS:	CHK BY: R.D.M.	10JUL19
DECIMAL: .XX = ±0.01	APP BY: R.D.M.	10JUL19
XXX = ±0.005		
ANGULAR: < = ±0.5°		
FINISH: 125 ✓ MAXIMUM		

**GLENTK**  
"Solutions for Motion Control"

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DRAWING TITLE  
**INSTALLATION DRAWING**

SIZE C	MODEL GM4050-38	DRAWING NUMBER 30178-1	REV A
SCALE: 1:1	FILE NAME: 30178-1RA.DWG	SHEET 1 OF 1	

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