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|--|------------------------|----------------|
| MOTOR MODEL NO.: GM4050-38 | | |
| CONFIG. CODE: GM4050-38-02402111-294A | | |
| 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 | - |

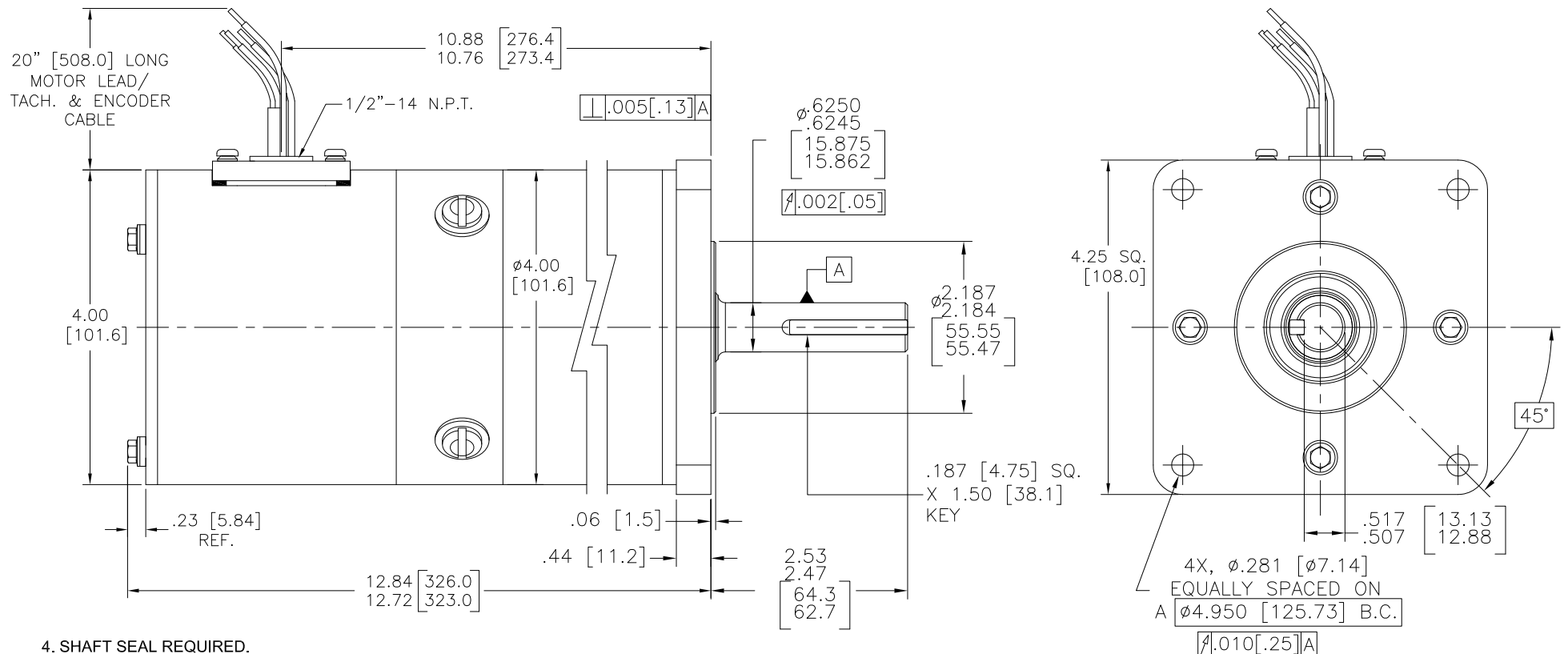
| ENCODER - TACH. - MOTOR | |
|-------------------------|--------------------|
| COLOR | FUNCTION |
| GREEN | CHANNEL A+ |
| GREEN/BLACK | CHANNEL A- |
| BLUE | CHANNEL B+ |
| BLUE/BLACK | CHANNEL B- |
| YELLOW | CHANNEL Z+ |
| YELLOW/BLACK | CHANNEL Z- |
| RED | +5 VDC |
| BLACK | ENCODER COMMON |
| 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 | | 4111 | 26OCT11 | SC 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 RED MOTOR LEAD WITH RESPECT TO 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: SC | 20OCT11 |
| FINISH: 125 ✓ MAXIMUM | CHK BY: R.D.M. | 20OCT11 |
| | APP BY: R.D.M. | 20OCT11 |

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DRAWING TITLE
INSTALLATION DRAWING

| | | | |
|------------|-------------------------|--------------------------|----------|
| SIZE C | MODEL GM4050-38 | DRAWING NUMBER 7150-1 | REV A |
| SCALE: 1:1 | FILE NAME: 7150-1RA.DWG | SHEET 1 OF 1 | |

CONFIGURATION CODE: GM4050-38-02402111-294A

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