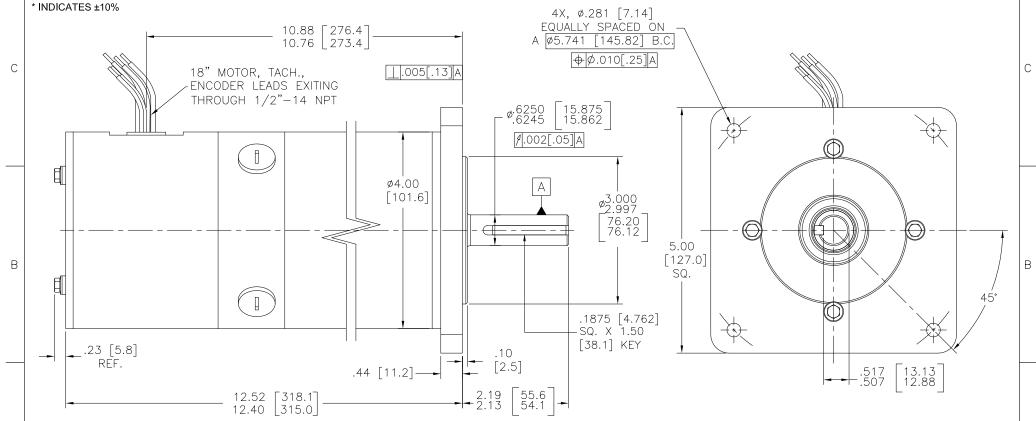
MOTOR MODEL NO.: GM4050-38 **ENCODER - TACH. - MOTOR** COLOR FUNCTION GM4050-38-02806101-367A CONFIG. CODE: BROWN CHANNEL A+ CHANNEL A-WHITE MOTOR CONSTANTS UNITS **VALUE** CHANNEL B+ BLUE GREEN CHANNEL B-CONTINUOUS STALL TORQUE IN-LB 41.3 **ORANGE** CHANNEL Z+ PEAK TORQUE IN-LB 206.5 YELLOW CHANNEL Z-TORQUE CONSTANT (KT) IN-LB/AMPS 3.21 RED +5 VDC ENCODER COMMON **BLACK** R_A^* OHMS 0.6 SHIELD ENCODER SHIELD INDUCTANCE (LA) * 4.40 MHY WHITE/BLACK ENC. CASE GROUND BEMF * VOLTS/1000 RPM 38 TACHOMETER + CLEAR MAXIMUM SPEED **RPM** 3500 TACHOMETER -BLACK 0.0198 INERTIA (JA) IN-LB-SEC² SHIELD TACH, CABLE SHIELD TACHOMETER OUTPUT VOLTS/1000 RPM 7 RED MOTOR + TACHOMETER RIPPLE **PERCENT** 1 BLACK MOTOR -WEIGHT LB/KG * INDICATES ±10% 10.88 [276.4] 10.76 273.4

REVISION HISTORY							
ZC	DNE	REV	DESCRIPTION	ECO	DATE	CHANGED	APPD
	- A INITIAL DRAWING RELEASE		5381	3DEC20	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 ⁻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% 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			

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- 4. SHAFT SEAL INSTALLED
- 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 CCW DIRECTION AS VIEWED FROM THE SHAFT END.

NOTES: UNLESS OTHERWISE SPECIFIED.

DIMENSIONS ARE IN INCHES	APPROVAL	DATE	
TOLERANCES ARE AS FOLLOWS: DECIMAL: XX = ±0.01	DWN BY: K. HALE	3DEC20	
$XXX = \pm 0.005$ ANGULAR: $< = \pm 0.5^{\circ}$	CHK BY: R.D.M.	3DEC20	DR
FINISH: 125/MAXIMUM	APP BY: R.D.M.	3DEC20	

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DRAWING TITLE	

INSTALLATION DRAWING

SIZE	MODEL		DRAWING NUMBER		
С	GM4050-38		30276-1	Α	
SCALE	1.1	FILE NAME:	30276-1RA.DWG	SHEET 1	OF 1

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CONFIGURATION CODE: GM4050-38-02806101-367A