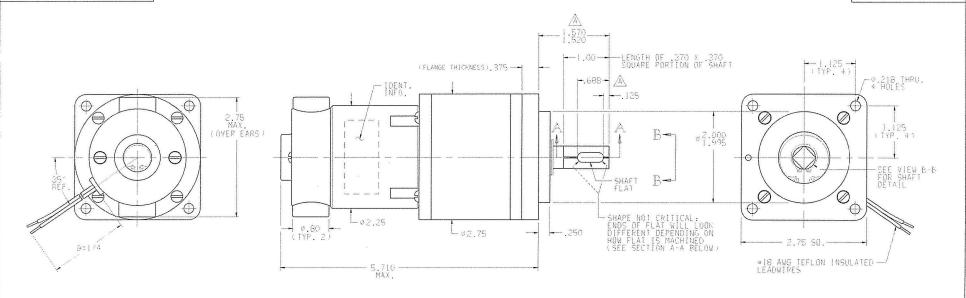
ITEM OPPORTUNITY SYNOPSIS							
ITENI OPPONTUNITI STINOPSIS							
Scouting Number:	2024-227						
Name of the item to be scouted: State item to be used in:	DC Gearmotor Michigan						
Describe the Item:	Imenigan						
	A Michigan company is looking for a manufacturer of low-voltage DC						
Please describe the item application/the end use of the item.	gearmotors. See the attached drawing for part parameters. Preference will be given to local/regional suppliers but all potential matches will be considered.						
Supplier Information:							
Type of Supplier Being Sought (select from the list below):							
Manufacturer Control Manufacturer	Х						
Contract Manufacturer Distributor							
Other (Please Specify)							
Reason for Scouting Submission (select from the list below)							
2nd Supplier							
Price	Х						
Re-Shore Past supplier no longer available							
New Product Startup							
BABA							
Other (Please Specify)							
Summary of Technical Specifications and Performance Requirements:							
Describe the manufacturing processes (elaborate to provide as much detail as possible)	See drawing & technical document						
Provide dimensions / size / tolerances / performance specifications of the item	See drawing & technical document						
List required materials needed to make the product, including materials of product components, if applicable	See drawing & technical document						
Are there applicable certification requirements?							
Yes							
No	Х						
Please explain:							
Are there any applicable regulations that apply to the production of this item?							
Yes No	x						
Please explain:	^						
Are there any other standards / requirements?							
Yes							
No .	Х						
Please explain:							
NAICS CODES:							
NAICS 1	333612 Speed changers, industrial high-speed drives, and gear manufacturing						
NAICS 2	335312 Motor and generator manufacturing						
Additional Comments:							
Additional technical comments:							
Volume and Pricing:							
Estimated Potential Business Volume (i.e. #units per day, month, year):	50/year - willing to order in annual quantities						
Estimated Target Price/Unit Cost Information:	\$2,200.00						
Delivery Requirements:							
When is it needed by? (Immediate, 30 days, 6 months, etc.)	5/1/2025						
Describe packaging requirements (i.e. individually/group packaging, etc.)	N/A						
Where will this item be shipped?	St. Louis, MI						
Additional Comments:							

Is there other information you would like to include?



ECC-NONE

NOTES:
1/21/4245 IS SAME AS STANDARD CATALOG 21/4226-12 GEARMOTOR EXCEPT:
A) OPERATE AT APPROXIMATELY 90 VDC (RECTIFIED 115 VAC) TO PRODUCE THEORETICAL STALL TORQUE OF 5760 DCT-IN.

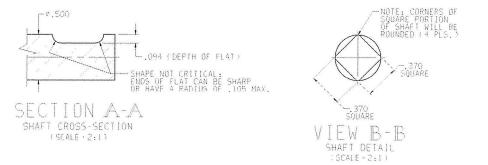
B) SEALED BEARINGS ON OUTPUT SHAFT OF GEARBOX.
C) SPECIAL GEARBOX OUTPUT SHAFT AS SHOWN.

2) ROTATION TO BE CCW. WHEN VIEWING OUTPUT SHAFT END. WITH RED LEAD POSITIVE AND BLACK LEAD NEGATIVE.

3) PERFORMANCE AT 90.0±0.1 VDC: AT NO-LOAD SPEED 46 RPM NOM. B3 NO-LOAD CURPENT 0.15 AMPS NOM.

41 DIELECTRIC TEST UNIT: 600 VAC. I SECOND. EITHER LEAD TO GROUND.

The amperage cannot exceed 5.5 amps at motor stall condition.



		UNLESS OTHERWISE SPECIFIED			81	DATE	TITLE		
		ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE AS FOLLOWS:		DRAWN	Z 1 NG	1/11/05	D.C.	GEARMOTI	ORI .
		DECIMALS RADII AN	GLES	CHECKED				90 VDC	
		.XX -± 0.010 .XXX-± 0.005	*3	APPROVED					
ZING	1/05	MATERIAL HEAT TREA			FINISH				DWG. ND.
BY	DATE		- American Company				SCALE FULL	WI. ACT.	CALC. ZITAZYO

Speed: Motor input speeds up to 7240 RPM can be used to drive this precision planetary geartrain, of ratios from 3.81 to 940.

Connection Method: Two #18 AWG stranded leads, teflon insulated, 8" long are standard. Terminal type connections are available.

Rotation: Counter clockwise when viewed from shaft end, when positive lead (red) is plus and negative lead (black) is minus.

Reversibility: Unit reverses rotation when voltage is reversed.

Rating: 0.083 hp with torques to 500 lb. in.

Gears: Precision manufactured and heat treated, high nickel alloy steel.

Bearings: Output shaft supported by double shielded ball bearings, but needle bearings are readily available. All planet gears are mounted on anti-friction bearings.

Backlash: Less than 3°.

Shaft: Precision ground 8620 alloy steel per QQ-S-624, heat treated and case hardened.

Protection: Aluminum parts finished with iridite chemical film. Ring gear tin-zinc plated, chromate finish per MIL-C-81562B, class 2, type 2.

Lubrication: Motor bearings life lubricated per MIL-G-3278. Gearbox lubricated with grease per MIL-G-23827A. Special lubricants are available.

Weight: 3.13 to 6.00 pounds, depending on ratios.

BASIC GEARMOTOR DATA --- STANDARD PART NUMBERS

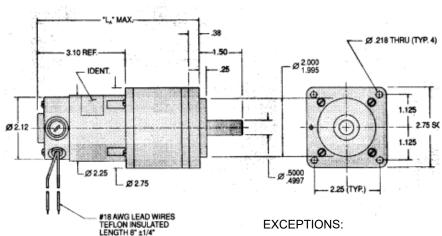
SPEED REDUCTION RATIO	MAXIMUM D CONT. DUTY TORQUE LB.IN.	TORQUE MULTIPLIER	LENGTH L, DIMENSION	STANDARD FIR GEARMOTOR PART NUMBERS (Add armature dash number; see below.)
80.3	64.6	64.6	5.735	211A226-

[■]This rating is for gearbox only. To determine output of any motor-gearbox combination, multiply motor torque by the torque multiplier for that ratio.

BASIC FIR ARMATURE DATA

INPUT VOLTAGE DC			TORQUE	NO-LOAD CURRENT AMPS MAX.		STALL CURRENT AMPS	ARMATURE DASH NUMBERS
115	4700	21	114	.15	.83	3.80	-12

DIMENSIONS





Same as standard 211A226-12 gearmotor except:

- Run at about 90vdc (rectified 115 vac) to produce theoretical stall torque of 5,760 oz-in
- Sealed bearings on output shaft of gearbox.
- Special gearbox output shaft:
 - 1.545" shaft extension from gearbox mounting face to end of shaft
 - Last 1.0" of shaft to be 0.370" x 0.370" square shaft. (Corners of square shaft will be rounded as nominal shaft diameter of standard 211A226-12 unit is only 0.500")
 - One 9/16" long x 0.094" deep flat cut down length of shaft, along corner of square shaft. (Flat to start 0.125" from end of shaft and end 0.688" from front end of shaft.)

Torque multiplier ratio is the gear ratio multiplied by its efficiency.