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DII14-60-003Z

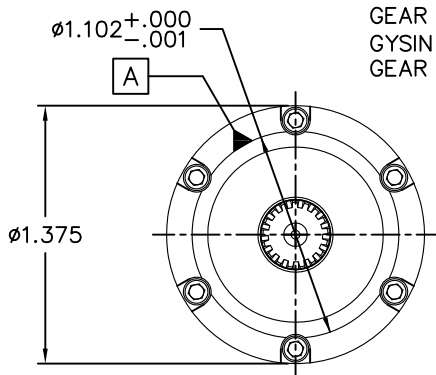
X2

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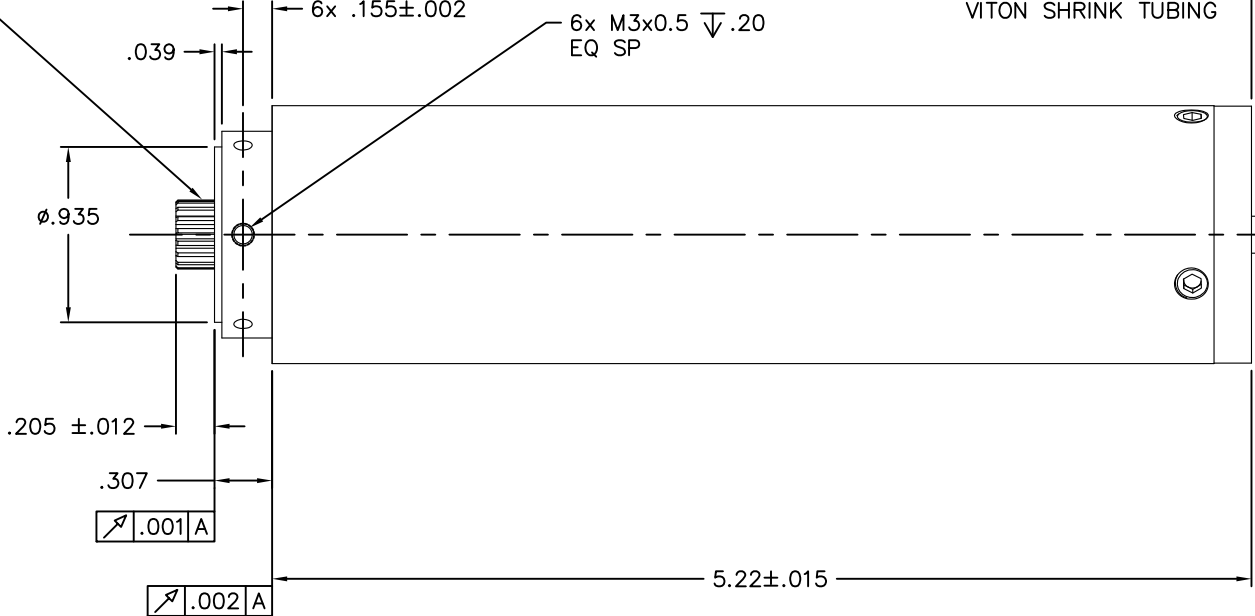
WINDING CONSTANTS *	UNITS	TOL	SYM	WDG Z
DC RESISTANCE	OHMS	±12.5%	R	11.8
VOLTAGE @ T _P	VOLTS	NOMINAL	V _P	28.6
CURRENT @ T _P	AMPERES	NOMINAL	I _P	2.42
TORQUE SENSITIVITY	OZ-IN/AMP	±10%	K _T	26.9
BACK EMF CONSTANT	VOLTS/(RAD/SEC)	±10%	K _B	0.19
INDUCTANCE	MILLIHENRY	±30%	L	10.8

MOTOR PARAMETERS *	UNITS	SYM	VALUE
PEAK TORQUE	OZ-IN	T _P	65.0
CONTINUOUS STALL TORQUE **	OZ-IN	T _{CS}	35.6
MOTOR CONSTANT	OZ-IN/ $\sqrt{\text{WATT}}$	K _M	7.83
ELECTRICAL TIME CONSTANT	MILLISECOND	τ _E	0.92
MECHANICAL TIME CONSTANT	MILLISECOND	τ _M	2.33
POWER I ² R @ T _P	WATTS	P _P	69.2
DAMPING FACTOR (ZERO IMPEDANCE)	OZ-IN/(RAD/SEC)	F _O	0.43
FRICTION TORQUE	OZ-IN	T _F	5.0
ROTOR INERTIA	OZ-IN SEC ²	J _M	0.001
THEO. NO-LOAD SPEED @ 60 VDC	RPM	S _M	3016
SPEED @ 15 OZ-IN & 60 VDC	RPM	S _L	2500
THEO ACC @ T _P	RAD/SEC ²	α _T	6.5x10 ⁴
THERMAL RESISTANCE	°C/WATT	θ _{TH}	5.4
MAX ALLOWABLE WINDING TEMP	°C	TEMP	220
PHASES/WINDING TYPE			3/Y
POLES			4
WEIGHT	OZ	W _T	25.6

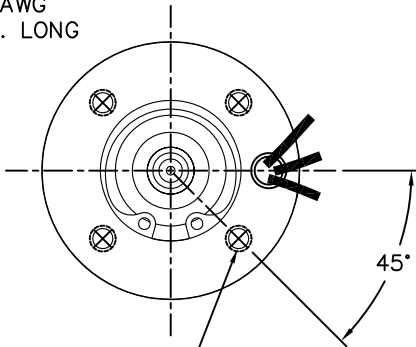
* 25°C AMBIENT TEMP
** 25°C AMBIENT, 220°C WINDING TEMP



GEAR TO ENGAGE WITH
GYSIN GPL032-1V/4:1
GEAR BOX



LEAD WIRE: TEFLON TYPE E
PER MIL-W-16878/4
3X #22 AWG
18.0 MIN. LONG

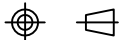


4X #6-32 UNC-2B 1/4.41 MAX.
EQ SP ON 1.024 B.C.
1/8 MAX SCREW PENETRATION

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THIRD ANGLE PROJECTION



UNLESS OTHERWISE SPECIFIED:
-ALL DIMENSIONS ARE IN INCHES
-BREAK SHARP EDGES .015 MAX.
-SURFACE ROUGHNESS 1/63
-DIMENSIONS APPLY AFTER FINISH
-MAX FILLET R .010
-DIAMETERS SHALL NOT EXCEED A RUNDOUT OF .005 FIM.

TOLERANCES:
DECIMALS ANGULAR
.X ± .03 ±0° 30'
.XX ± .01
.XXX ± .005

DO NOT SCALE DRAWING

- ALL ABBREVIATIONS IAW ASME Y14.38.
- INTERPRET DRAWING IAW ASME Y14.100.
- INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED