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MOTOR SPECIFICATIONS:			
FRAME SIZE:	NEMA 14	ROTOR INERTIA (g-cm <sup>2</sup> /oz-in <sup>2</sup> ):	35.3/0.193 NOM
STEP ACCURACY (°)	± 0.09	INSULATION CLASS:	B (130°)
STEP ANGLE (°):	1.8	BEARINGS:	ABEC 3, DOUBLE SHIELDED
INPUT VOLTAGE(VDC):	42.5 TO 57	APPROVALS:	CE, RoHS


GEARMOTOR SPECIFICATIONS:			
TEMP. RISE (°C):	80 MAX	TOTAL WEIGHT (±10g/±0.35oz):	553.7/19.5
OPERATING AMB. TEMP. RANGE (°C):	-20 to +50	RELATIVE HUMIDITY RANGE (%):	85 NON-CONDENSING
STORAGE TEMP. RANGE (°C):	-20 to +70	IP RATING	IP20

GEARHEAD SPECIFICATIONS:			
RATIO:	4.62:1	EFFICIENCY (%):	90
MAX TORQUE CONTINUOUS (Nm/oz-in):	2.5/354	BACKLASH ( ° ):	≤0.8
MAX TORQUE (Nm/oz-in):	3.5/495.6	MAX RADIAL LOAD (N/lbf):	≤200/44.96
MAX INPUT SPEED (RPM):	6000	MAX AXIAL LOAD (N/lbf):	≤200/44.96

GEARHEAD MATERIALS	
GEARTRAIN:	Y15(1213) STEEL
HOUSING:	304 STAINLESS STEEL
INPUT/OUTPUT FLANGE:	LY12 ALUMINUM
OUPTUT SHAFT:	40Cr STEEL
PINION:	Y15 (1213) STEEL

NOTES, UNLESS OTHER WISE SPECIFIED:

1. USE CURRENT REV OF 690-1274 LABEL.
2. USE CURRENT REV OF 690-1279 LABEL.
3. USE CURRENT REV OF 690-1280 LABEL.
4. USE CURRENT REV OF 690-1285 LABEL.
5. THIS ASSEMBLY IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
6. ALL SPECIFICATIONS AND OPERATING INSTRUCTIONS CAN BE FOUND AT [APPLIED-MOTION.COM](http://APPLIED-MOTION.COM).

 <b>Applied Motion Products</b> A MOONS' COMPANY		UNLESS OTHERWISE SPECIFIED:		TITLE: INTEGRATED STEP-SERVO MOTOR W/ GEARHEAD	
<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APPLIED MOTION PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS PROHIBITED.		DIMENSIONS ARE IN MILLIMETERS		NAME	DATE
		TOLERANCES:		DRAWN	Y. LAPNET 2/15/22
		ANGULAR: $\pm 0.5$		CHECKED	K. KESLER 2/15/22
		ONE PLACE DECIMAL $\pm 0.25$		COMMENTS:	
		TWO PLACE DECIMAL $\pm 0.13$			
		THIRD ANGLE PROJECTION			
		MATERIAL			
		FINISH			
		DO NOT SCALE DRAWING			
				SIZE	DWG. NO.
				<b>B</b>	TSM14POE3M-JG04
				SCALE: 8:7	WEIGHT:
				SHEET 1 OF 2	

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