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MOTOR SPECIFICATIONS:			
FRAME SIZE:	NEMA 14	ROTOR INERTIA (g-cm ² /oz-in ²):	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.			
 PROPRIETARY AND CONFIDENTIAL 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. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: ANGULAR: ± 0.5 ONE PLACE DECIMAL ± 0.25 TWO PLACE DECIMAL ± 0.13 THIRD ANGLE PROJECTION MATERIAL FINISH DO NOT SCALE DRAWING NAME DATE DRAWN Y. LAPNET 2/15/22 CHECKED K. KESLER 2/15/22 COMMENTS: TITLE: INTEGRATED STEP-SERVO MOTOR W/ GEARHEAD SIZE B DWG. NO. TSM14POE3M-MG04 REV B SCALE: 8:7 WEIGHT: SHEET 1 OF 2			

REVISIONS				
ECO #	REV.	DESCRIPTION	DATE	APPROVED
7935	A	INITIAL RELEASE	7/2/18	J.KORDIK
8750	B	REDRAWN IN SOLIDWORKS	2/15/22	L. LIU

