

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

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

GEARMOTOR SPECIFICATIONS:

TEMP. RISE (°C):	80 MAX	TOTAL WEIGHT (±10g/±0.35oz):	606.7/21.4
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:	12.07:1	EFFICIENCY (%):	81
MAX TORQUE CONTINUOUS (Nm/oz-in):	8/1132.9	BACKLASH (°):	≤1.2
MAX TORQUE (Nm/oz-in):	10/1416.1	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
OUTPUT SHAFT:	40Cr STEEL
PINION:	Y15 (1213) STEEL

NOTES, UNLESS OTHERWISE 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.



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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

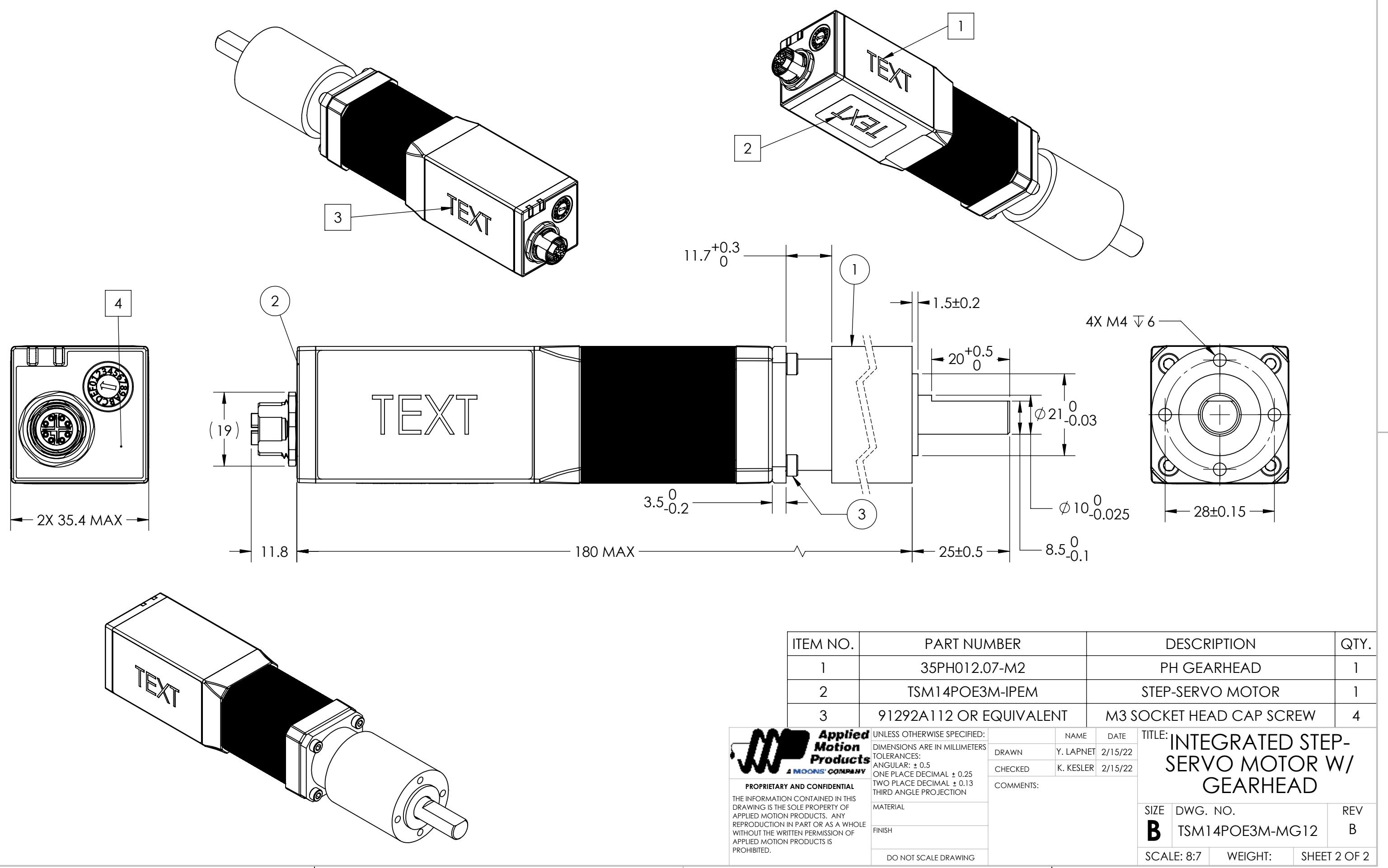
DO NOT SCALE DRAWING

DRAWN Y. LAPNET 2/15/22
CHECKED K. KESLER 2/15/22

COMMENTS:

TITLE: INTEGRATED STEP-SERVO MOTOR W/ GEARHEAD
SIZE DWG. NO. REV
B TSM14POE3M-MG12 B

SCALE: 8:7 WEIGHT: SHEET 1 OF 2





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AMERICAN COMPANY

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	35PH012.07-M2	PH GEARHEAD	1
2	TSM14POE3M-IPEM	STEP-SERVO MOTOR	1
3	91292A112 OR EQUIVALENT	M3 SOCKET HEAD CAP SCREW	4