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MOTOR SPECIFICATIONS:

FRAME SIZE:	NEMA 11	ROTOR INERTIA (g-cm ² /oz-in ²):	8.97/4.9E-02 NOM
STEP ACCURACY (°):	±0.09	INSULATION CLASS:	B (130°C)
STEP ANGLE (°):	1.8	BEARINGS:	ABEC 3, DOUBLE SHIELDED
INPUT VOLTAGE (VDC):	15 - 30	APPROVALS:	CE, RoHS

GEARMOTOR SPECIFICATIONS:

TEMP. RISE (°C):	80 MAX	TOTAL WEIGHT (±10g/±0.35oz):	184/6.49
OPERATING AMB. TEMP. RANGE (°C):	0 to +85	RELATIVE HUMIDITY RANGE (%):	90 NON-CONDENSING
STORAGE TEMP. RANGE (°C):	0 to +40		

GEARHEAD SPECIFICATIONS:

RATIO:	14.29:1	EFFICIENCY (%):	81
MAX TORQUE CONTINUOUS (Nm/oz-in):	2/283.2	BACKLASH (°):	≤1.8
MAX TORQUE (Nm/oz-in):	3/424.8	MAX RADIAL LOAD (N/lbf):	≤20/4.49
MAX INPUT SPEED (RPM):	6000	MAX AXIAL LOAD (N/lbf):	≤20/4.49

NOTES, UNLESS OTHER WISE SPECIFIED:

1.
- THIS ASSEMBLY IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
2.
- ALL SPECIFICATIONS AND OPERATING INSTRUCTIONS CAN BE FOUND AT APPLIED-MOTION.COM.

REVISIONS

ECO #	REV.	DESCRIPTION	DATE	APPROVED
7935	A	INITIAL RELEASE	7/2/18	J. KORDIK
8161	B	REVISE FROM L1 TO L2	3/8/19	J. KORDIK
8758	C	REDRAWN IN SOLIDWORKS	4/18/22	L. LIU



Applied Motion Products
A MOONS' COMPANY

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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
- ANGULAR: ± 0.5
- ONE DECIMAL PLACE: ± 0.25
- TWO DECIMAL PLACES: ± 0.13

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

PRE.CHECK

PRE.APPROVAL

FIN.CHECK

C. BREUNINGER

4/18/22

SAP: 4696351005838

ALT DWG. NO.:

ALT SAP:

TITLE:

INTEGRATED STEP-SERVO MOTOR WITH GEARHEAD

SIZE

DWG. NO.

REV

B

TSM11Q-1HM-G014

C

SCALE: 2:1

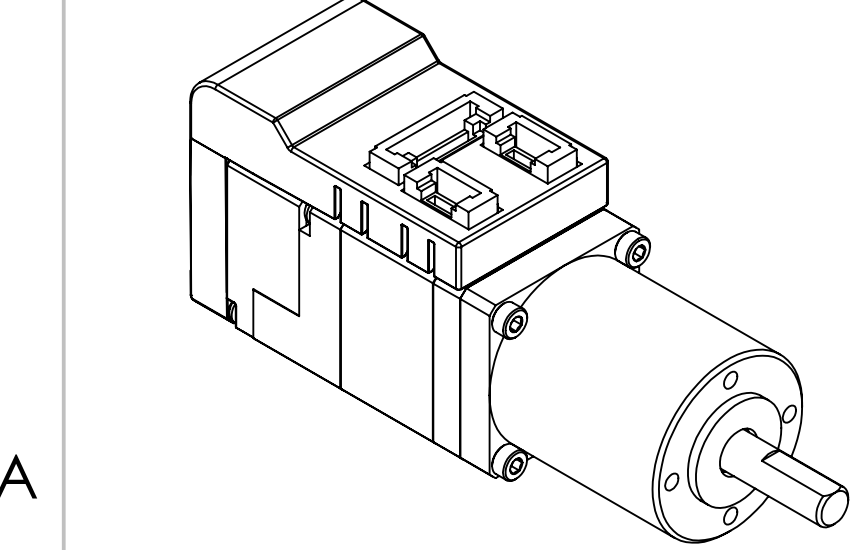
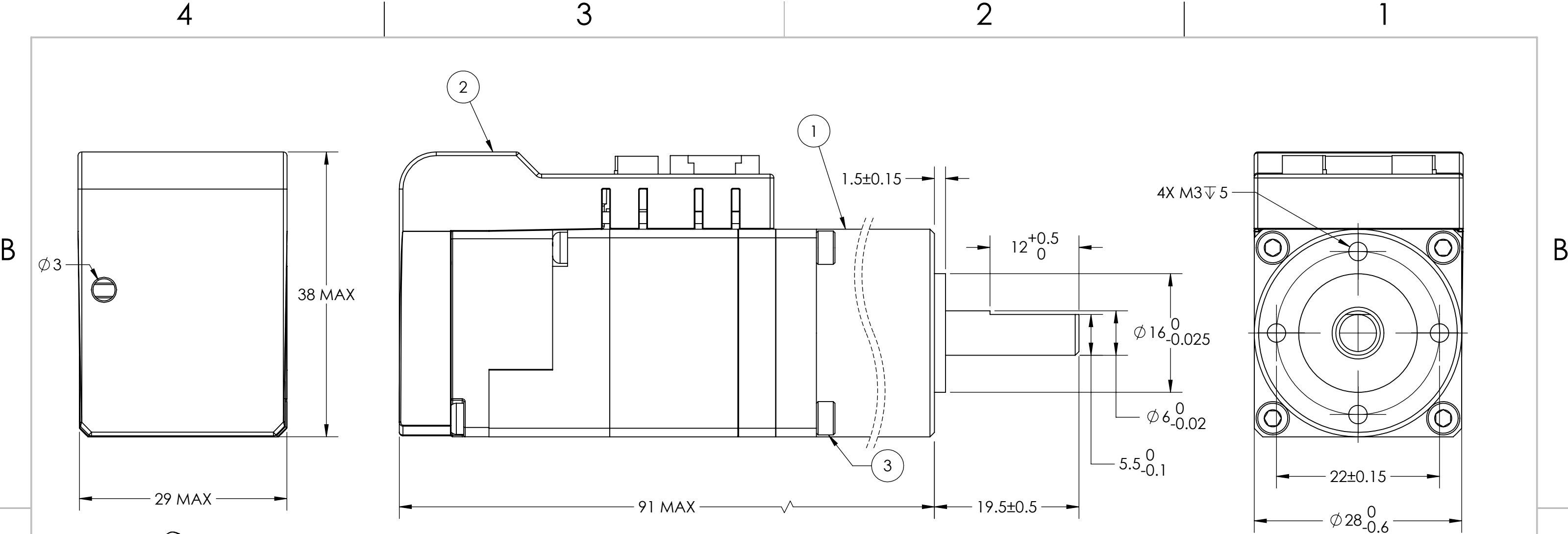
SHEET 1 OF 2

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ITEM NO.	SAP PART NUMBER	PART NUMBER	DESCRIPTION	QTY.
1	4332401001506	28PH014.29-L2	PH GEARHEAD	1
2	4696351006079	TSM11Q-1RM-H01	STEP-SERVO MOTOR	1
3	4294404001453	91292A012 OR EQUIVALENT	M2.5X8MM STAINLESS STEEL SOCKET HEAD SCREW	4

GEARHEAD MATERIALS:	
GEARTRAIN:	Y100 (1144) STEEL
HOUSING:	304 STAINLESS STEEL
INPUT/OUTPUT FLANGE:	LY12 ALUMINUM
OUTPUT SHAFT:	40Cr STEEL
PINION:	Y100 (1144) STEEL

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	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DRAWN	Y. LAPNET	4/18/22			
	TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	PRE.CHECK					
	MATERIAL	FIN.CHECK	C. BREUNINGER	4/18/22	SIZE	DWG. NO.	REV
	FINISH	DO NOT SCALE DRAWING	ALT DWG. NO.:	ALT SAP:	B	TSM11Q-1HM-G014	C
					SCALE: 2:1		SHEET 2 OF 2