

4

3

2

1

MOTOR SPECIFICATIONS:

FRAME SIZE:	NEMA 11	ROTOR INERTIA (g-cm ² /oz-in ²):	18/9.8E-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):	268/9.45
OPERATING AMB. TEMP. RANGE (°C):	0 to +85	RELATIVE HUMIDITY RANGE (%):	90 NON-CONDENSING
STORAGE TEMP. RANGE (°C):	0 to +40		

GEARHEAD SPECIFICATIONS:

RATIO:	4:1	EFFICIENCY (%):	90
MAX TORQUE CONTINUOUS (Nm/oz-in):	0.5/70.8	BACKLASH (°):	≤1.2
MAX TORQUE (Nm/oz-in):	0.8/113.3	MAX RADIAL LOAD (N/lbf):	≤20/4.49
MAX INPUT SPEED (RPM):	6000	MAX AXIAL LOAD (N/lbf):	≤20/4.49

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

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.

Sold & Serviced By:



Canadian and International Sales

ELECTROMATE

877-737-8698

sales@electromate.com

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U.S. Sales



877-378-0240

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PROPRIETARY AND CONFIDENTIAL

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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

Y. LAPNET

PRE.CHECK

PRE.APPROVAL

FIN.CHECK

C. BREUNINGER

4/18/22

SAP: 4696351005860

ALT DWG. NO.:

ALT SAP:

TITLE:
INTEGRATED STEP-SERVO MOTOR WITH GEARHEAD

SIZE

B

DWG. NO.

TSM11Q-3HM-G004

REV

C

SCALE: 2:1

SHEET 1 OF 2

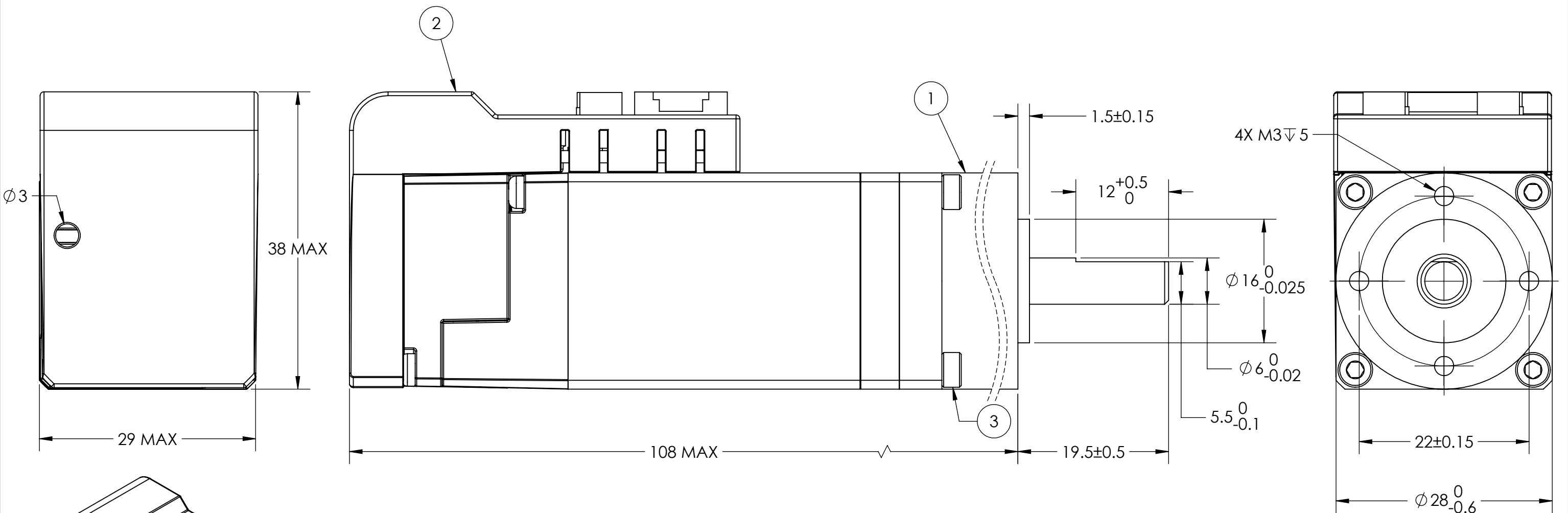
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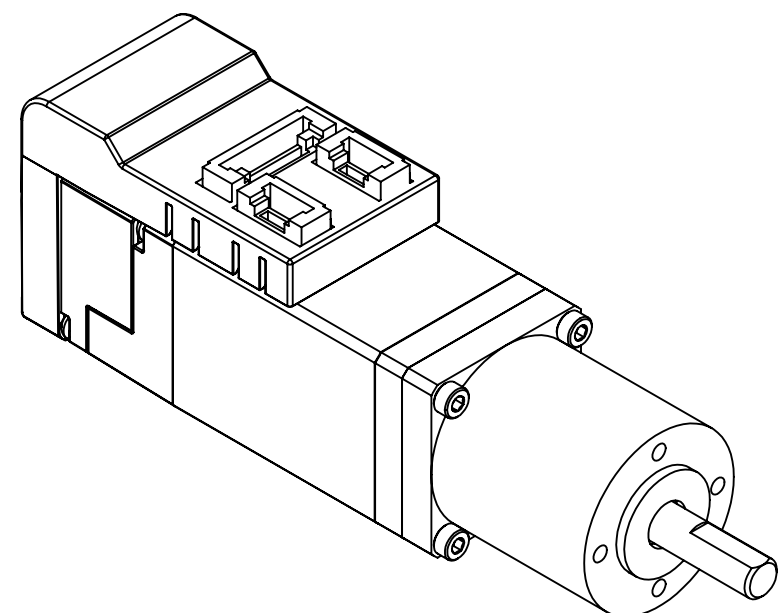
1

B



B


A



A

ITEM NO.	SAP PART NUMBER	PART NUMBER	DESCRIPTION	QTY.
1	4332401001498	28PH004.00-L2	PH GEARHEAD	1
2	4696351006081	TSM11Q-3RM-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

 <div>Applied Motion Products A MOONS' COMPANY</div>	THIRD ANGLE PROJECTION		NAME	DATE	TITLE: INTEGRATED STEP-SERVO MOTOR WITH GEARHEAD		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: - ANGULAR: ± 0.5 - ONE DECIMAL PLACE: ± 0.25 - TWO DECIMAL PLACES: ± 0.13	DRAWN	Y. LAPNET	4/18/22			
		PRE.CHECK					
		PRE.APPROVAL					
		FIN.CHECK	C. BREUNINGER	4/18/22			
	MATERIAL	SAP: 4696351005860			SIZE	DWG. NO.	REV
FINISH	ALT DWG. NO.:			B	TSM11Q-3HM-G004	C	
DO NOT SCALE DRAWING	ALT SAP:			SCALE: 2:1		SHEET 2 OF 2	