

MOTOR SPECIFICATIONS:

FRAME SIZE:	NEMA 11	ROTOR INERTIA (g-cm ² /oz-in ²):	12/6.5E-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

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

GEARMOTOR SPECIFICATIONS:

TEMP. RISE (°C):	80 MAX	TOTAL WEIGHT (±10g/±0.35oz):	232/8.18
OPERATING AMB. TEMP. RANGE (°C):	0 to +85	RELATIVE HUMIDITY RANGE (%):	90 NON-CONDENSING
STORAGE TEMP. RANGE (°C):	0 to +40		

GEARHEAD SPECIFICATIONS:

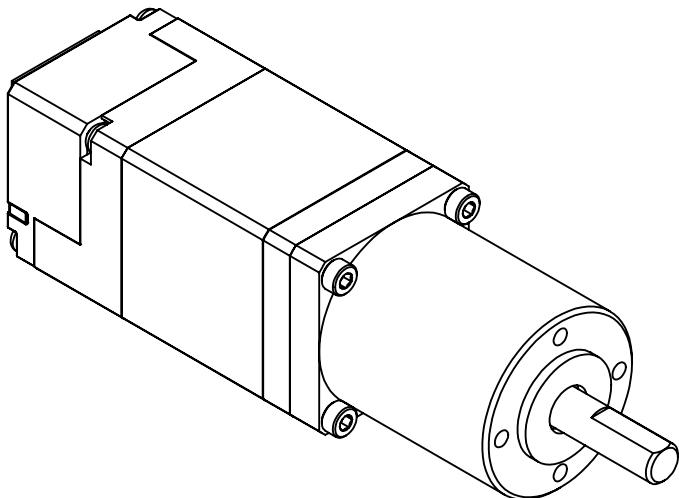
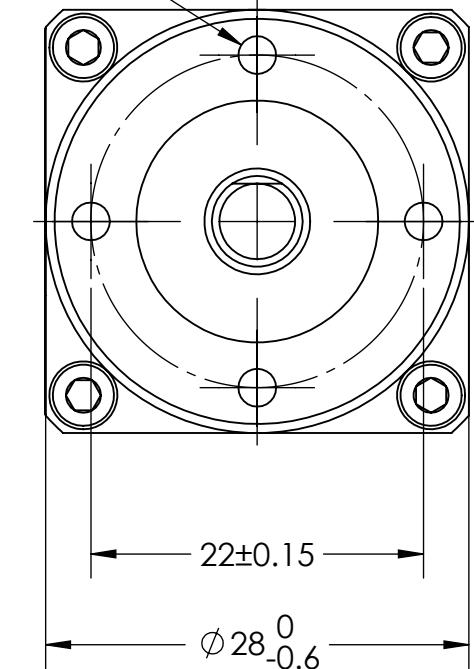
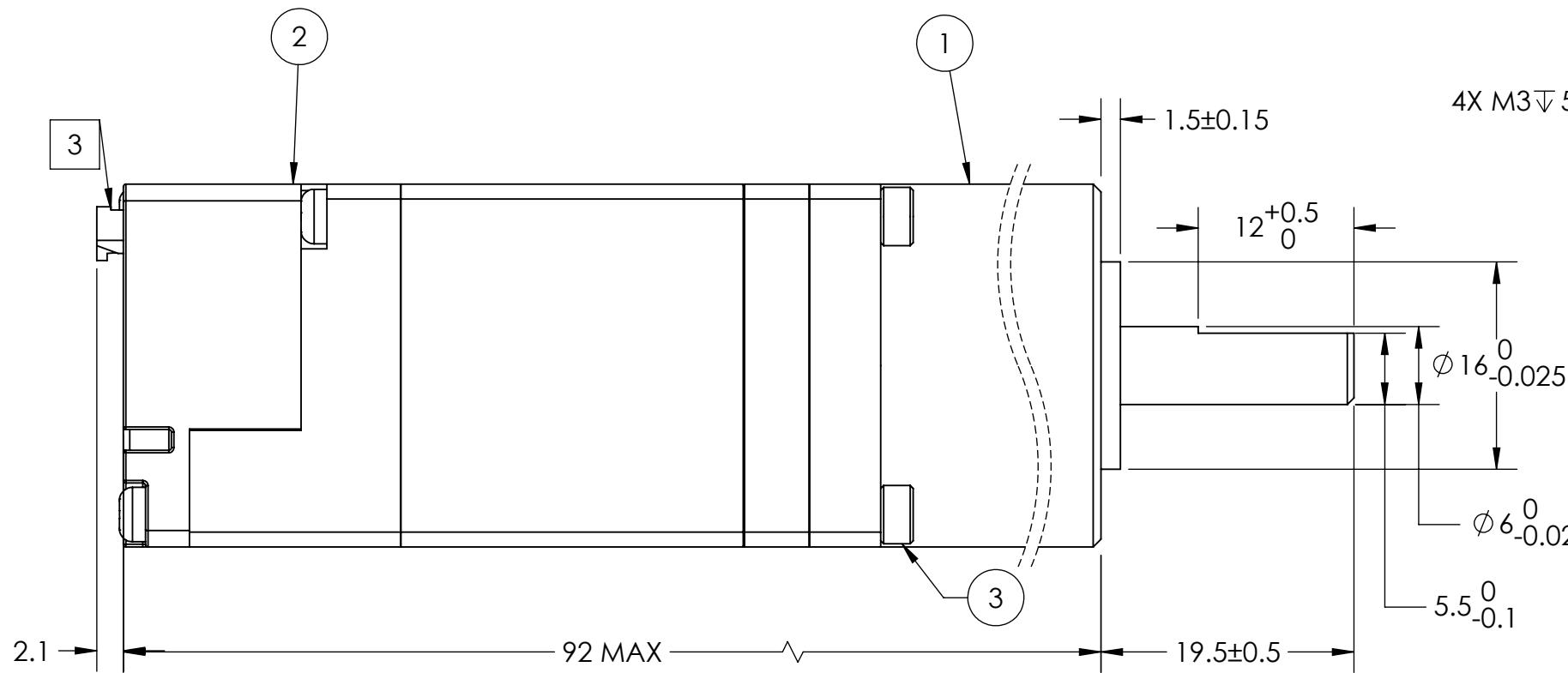
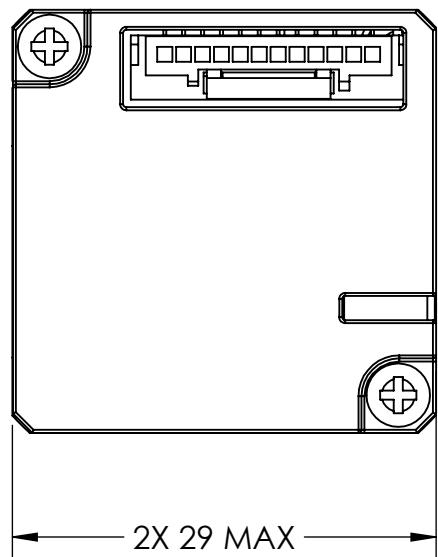
RATIO:	14.29:1	EFFICIENCY (%):	81
MAX TORQUE CONTINUOUS (Nm/oz-in):	2/283.2	BACKLASH (°):	≤1.8
MAX TORQUE (Nm/oz-in):	3/424.8	MAX RADIAL LOAD (N/lbf):	≤20/4.49
MAX INPUT SPEED (RPM):	6000	MAX AXIAL LOAD (N/lbf):	≤20/4.49

NOTES, UNLESS OTHERWISE 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.
3. CONNECTOR FOR POWER, I/O AND COMMUNICATION. USE INCLUDED CABLE 3004-319.

 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.	THIRD ANGLE PROJECTION			DRAWN	Y. LAPNET	4/18/22	TITLE: INTEGRATED STEP-SERVO MOTOR W/ GEARHEAD	
	UNLESS OTHERWISE SPECIFIED:	DIMENSIONS ARE IN MILLIMETERS	TOLERANCES:					
	- ANGULAR: ± 0.5							
	- ONE DECIMAL PLACE: ± 0.25			PRE.CHECK				
	- TWO DECIMAL PLACES: ± 0.13							
	MATERIAL			PRE.APPROVAL				
	SAP: 4696351005857							
	FINISH			FIN.CHECK	C. BREUNINGER	4/18/22		
	ALT DWG. NO.:							
	DO NOT SCALE DRAWING			DO NOT SCALE DRAWING	ALT SAP:		SCALE: 2:1	
							SHEET 1 OF 2	

B



ITEM NO.	SAP PART NUMBER	PART NUMBER	DESCRIPTION	QTY.
1	4332401001506	28PH014.29-L2	PH GEARHEAD	1
2	4696351002074	TSM11Q-2RM	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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DO NOT SCALE DRAWING	ALT SAP:			
	SCALE: 2:1	SHEET 2 OF 2		