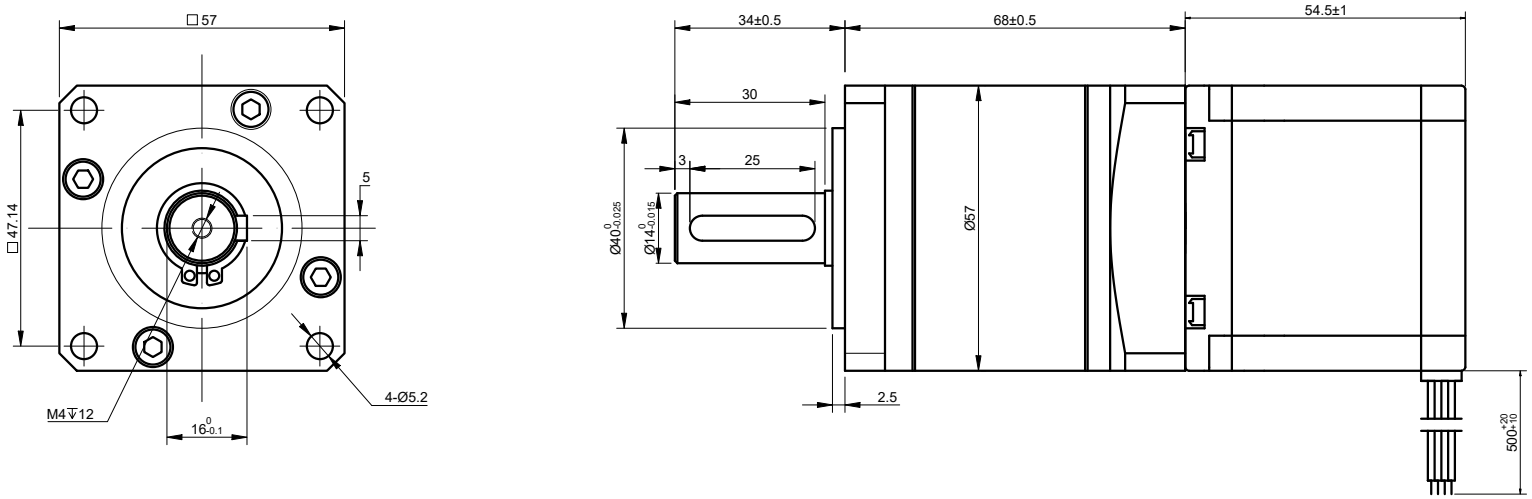
MODEL NO.	23HS22-2904S-MG20	DWG NO.	A4460

CUSTOMER'S MODEL: NO MODEL
END COVER COLOR: GRAY

REV.	REVISION RECORD	BY	DATE
0	ORIGIN	LJ	4.24.2025



SPECIFICATION \ CONNECTION	BIPOLAR
AMPS/PHASE	2.90
RESISTANCE/PHASE(Ohms)@25°C	0.90±10%
INDUCTANCE/PHASE(mH)@1KHz	2.60±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	1.20[10.63]
STEP ANGLE w/o GEARBOX(°)	1.80±5.00%
GEAR RATIO	20
MAX.PERMISSIBLE TORQUE(Nm)	25.00
MOMENT PERMISSIBLE TORQUE(Nm)	50.00
EFFICIENCY	80%
BACKLASH@NO-LOAD(arcmin)	<=45
AMBIENT TEMPERATURE	-10°C~50°C[14°F~122°F]
INSULATION CLASS	B 130°C[266°F]
TEMPERATURE RISE	MAX.80°C

COMMENT:
1.DYNAMIC AXIAL LOAD: 100N MAX
2.DYNAMIC RADIAL LOAD @ SHAFT LENGTH 20mm: 250N MAX
3.TMBF 6000h OR MORE @ 24V/300RPM
4.INSULATION RESISTANCE
(NORMAL TEMPERATURE AND HUMIDITY): 100 Mohm
5.DIELECTRIC STRENGTH 500VAC FOR 1MIN.(BETWEEN THE MOTOR COILS AND THE MOTOR CASE)

MOTOR CONNECTION(EHR-6)			
PIN NO	BIPOLAR	LEADS	WINDING
1	A+	BLK	A+ / A- / B+ / B-
2	A -	GRN	
3	B+	RED	
4	B -	BLU	

FULL STEP 2 PHASE-Ex.,WHEN FACING MOUNTING END (X)

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

CW ↓ CCW ↑

DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES AS BELOW:

DECIMALS		ANGLES
X	±0.5	±2°
X.X	±0.25	
X.XX	±0.13	

THIRD ANGLE PROJECTION

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	SIGNATURE	DATE
DRN	LJ	4.24.2025
APVD	MYX	4.24.2025

STEPPERONLINE®

STEPPER MOTOR

23HS22-2904S-MG20

REV.	0	SCALE	1:1	DWG NO.	A4460