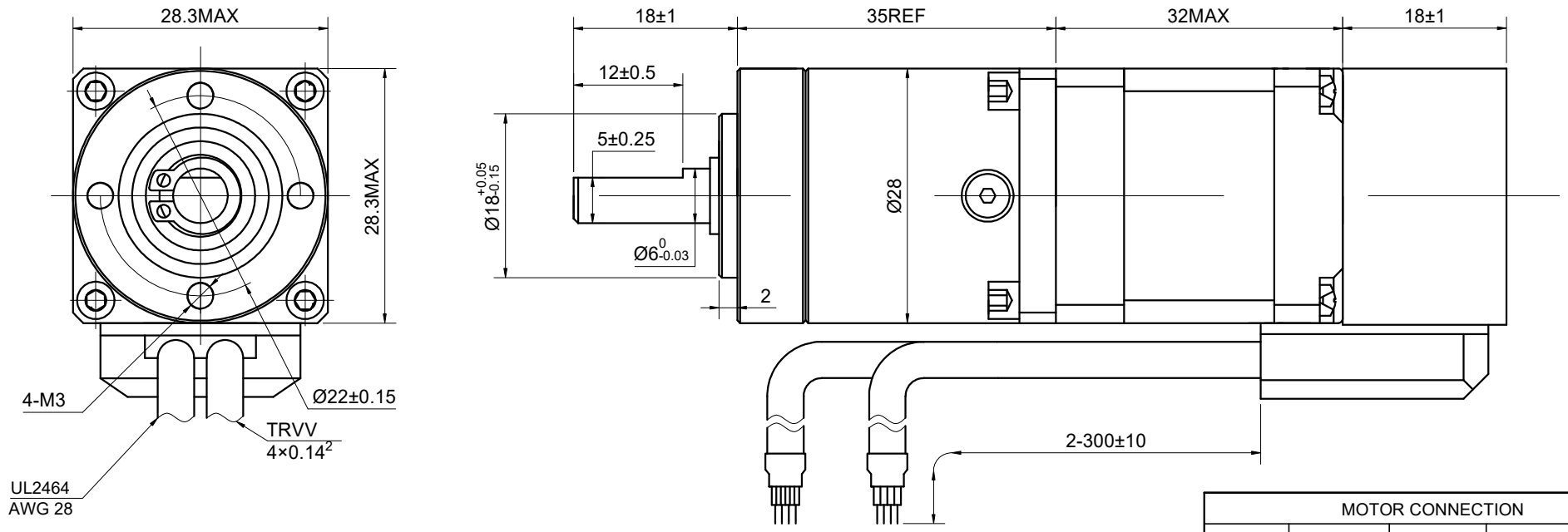
MODEL NO.	11HS12-1004D-E1000-PG27	DWG NO.	A2864

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

REV.	REVISION RECORD	BY	DATE
0	ORIGIN	LDJ	2.1.2024



MOTOR CONNECTION			
PIN NO	BIPOLAR	LEADS	WINDING
1	A+	BLK	A+
2	A -	GRN	A-
3	B+	RED	B+
4	B -	BLU	B-

SPECIFICATION \ CONNECTION	BIPOLAR
AMPS/PHASE	1.00
RESISTANCE/PHASE(Ohms)@25°C	2.00±10%
INDUCTANCE/PHASE(mH)@1KHz	1.50±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.06[0.53]
STEP ANGLE w/o GEARBOX(°)	1.80
GEAR RATIO	$26\frac{103}{121}$
GEAR EFFICIENCY	80%
BACKLASH@NO-LOAD	<=3°
MAX.PERMISSIBLE TORQUE(Nm)	3
MOMENT PERMISSIBLE TORQUE(Nm)	5
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: 5N MAX
2.DYNAMIC RADIAL LOAD @ SHAFT LENGTH 20mm: 25N 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)

ENCODER RESOLUTION:1000PPR(4000CPR)								
LEAD COLOR	RED	BLK	WHT	YEL	ORG	GRA	GRN	BLU
DESCRIPTION	VCC	GND	EA+	EA-	EB+	EB-	EZ+	EZ-

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	LDJ	2.1.2024
APVD	HW	2.1.2024

STEPPERONLINE®

STEPPER MOTOR

11HS12-1004D-E1000-PG27

REV.	0	SCALE	1:1	DWG NO.	A2864