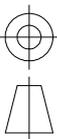


ENCODER RESOLUTION:1000PPR(4000CPR)

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-	CCW	CW	UNIT mm	
1	+	+	-	-	←	→	GRT:1804M	
2	-	+	+	-			ENV:ISO 278-1	
3	-	-	+	+			CLASS W:	≤6
4	+	-	-	+			>6-30	±0.1
							>30-120	±0.2
							>120-400	±0.3
								±0.5

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



SPECIFICATION	VALUE
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]
GEAR RATIO	5 $\frac{1}{2}$
EFFICIENCY	90%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(°)	≤3
MAX.PERMISIBLE TORQUE(Nm)	3
MOMENT PERMISSIBLE TORQUE(Nm)	5
SHAFT MAXIMUM AXIAL LOAD(N)	-
SHAFT MAXIMUM RADIAL LOAD(N)	-
AMBIENT TEMPERATURE	-10°C~-50°C[14°F~-122°F]
INSULATION CLASS	B 130°C[266°F]
TEMPERATURE RISE	MAX.80°C

# OSMTEC®

Stepper Motor Specialists

mm		UNITS	
3:2	APVD	LDJ	1.9.2026
SCALE	SIGNATURE	DATE	

## PLANETARY GEARBOX MOTOR

11HS12-1004D-E1000-PG5