

ENCODER CONNECTION:1000PPR(4000CPR)

LEAD COLOR	RED	BLK	BRN	ORG	BLU	GRN	YEL	WHT
DESCRIPTION	+5V	EGND	EA+	EA-	EB+	EB-	EZ+	EZ-

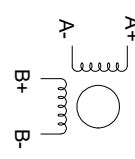
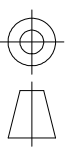
  

STEP	A+	B+	A-	B-	CCW	CW
1	+	+	-	-	←	→
2	-	+	+	-	←	→
3	-	-	+	+	←	→
4	+	-	-	+	←	→

FULL STEP 2 PHASE-EX. WHEN FACING MOUNTING END (X)	UNIT mm	PIN NO	BIPOLAR	LEADS
GB/T 1804-M EQV/ISO 2768-1 CLASS M:		1	A+	BLK
<=6	±0.1	2	A-	GRN
>6-30	±0.2	3	B+	RED
>30-120	±0.3	4	B-	BLU
>120-400	±0.5			

SPECIFICATION	VALUE
AMPS/PHASE	1.00
RESISTANCE/PHASE(Ohms)@25°C	3.50±10%
INDUCTANCE/PHASE (mH)@1KHz	3.50±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.125[1.11]
GEAR RATIO	20
EFFICIENCY	94%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(arcmin)	≤20
MAX. PERMISSIBLE TORQUE(Nm)	8.50
MOMENT PERMISSIBLE TORQUE(Nm)	17.00
SHAFT MAXIMUM AXIAL LOAD(N)	100
SHAFT MAXIMUM RADIAL LOAD(N)	270
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	DRN	LDJ	1.9.2026
UNITS	APVD	ZPJ	1.19.2026
SCALE	SIGNATURE	DATE	

# PLANETARY GEARBOX MOTOR

## 14HS11-1004D-EGS20-AR4