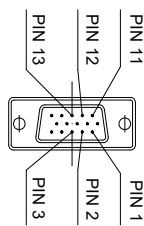
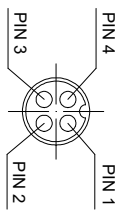


ENCODER RESOLUTION: 1:1000PPR(4000CPR)

15-PIN DB MALE PLUG	1	2	3	11	12	13
DESCRIPTION	EA+	VCC	GND	EB+	EB-	EA-



B VIEW

A VIEW

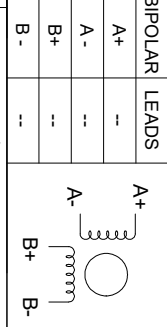
FULL STEP 2 PHASE-EX. WHEN FACING MOUNTING END (X)

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

UNIT mm  
GB/T 1804-M EQV/ISO 2768-1 CLASS M:  
≤±6 +0.1  
>6-30 ±0.2  
>30-120 ±0.3  
>120-400 ±0.5

SPECIFICATION	VALUE
AMPS/PHASE	4.0
RESISTANCE/PHASE(Ohms)@25°C	0.45±10%
INDUCTANCE/PHASE(mH)@1KHz	1.30±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	1.20[10.62]
GEAR RATIO	5
EFFICIENCY	85%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(°)	0.8
MAX. PERMISSIBLE TORQUE(Nm)	6
MOMENT PERMISSIBLE TORQUE(Nm)	12
SHAFT MAXIMUM AXIAL LOAD(N)	100
SHAFT MAXIMUM RADIAL LOAD(N)	250
AMBIENT TEMPERATURE	-10°C-50°C[14°F-122°F]
INSULATION CLASS	B 130°C[266°F]
TEMPERATURE RISE	MAX.80°C

MOTOR CONNECTION



# OSMTEC®

Stepper Motor Specialists

mm

UNITS	DRN	LDJ	1.7.2026
SCALE	APVD	ZPJ	1.19.2026

SIGNATURE DATE

## PLANETARY GEARBOX MOTOR

### 23HS22-HG5-E1000