

SPECIFICATION	VALUE
AMPS/PHASE	0.4
RESISTANCE/PHASE(Ohms)@25°C	25.00±10%
INDUCTANCE/PHASE(mH)@1KHz	28.50±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.25[2.21]
GEAR RATIO	50
EFFICIENCY	80%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD	<=45arcmin
MAX.PERMISSIBLE TORQUE(Nm)	10.00
MOMENT PERMISSIBLE TORQUE(Nm)	20.00
SHAFT MAXIMUM AXIAL LOAD(N)	100
SHAFT MAXIMUM RADIAL LOAD(N)	300
AMBIENT TEMPERATURE	-10°C~50°C[14°F~122°F]
INSULATION CLASS	B 130°C[266°F]
TEMPERATURE RISE	MAX.80°C

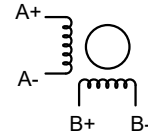
FULL STEP 2 PHASE-Ex.,WHEN FACING MOUNTING END (X)

STEP	A+	B+	A-	B-	CW	CCW
1	+	+	-	-	↓	↑
2	-	+	+	-	↓	↑
3	-	-	+	+	↓	↑
4	+	-	-	+	↓	↑

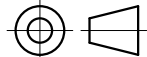
UNIT mm  
GB/T 1804-M EQV.ISO  
2768-1 CLASS M:  
<=6 ±0.1  
>6~30 ±0.2  
>30~120 ±0.3  
>120~400 ±0.5

MOTOR CONNECTION

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



**OSMTEC**<sup>®</sup>  
Stepper Motor Specialists



mm			
UNITS	DRN	LJ	1.27.2026
1:1	APVD	MYX	1.27.2026
SCALE	SIGNATURE	DATE	

**GEARBOX MOTOR**

**17HS13-0404S-MG50**