

SPECIFICATION	VALUE
AMPS/PHASE	1.68
RESISTANCE/PHASE(Ohms)@25°C	1.80±10%
INDUCTANCE/PHASE(mH)@1KHz	3.20±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.52[4.60]
GEAR RATIO	50 <sup>4397</sup> / <sub>4913</sub>
EFFICIENCY	70%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD	<=3°
MAX.PERMISSIBLE TORQUE(Nm)	3.00
MOMENT PERMISSIBLE TORQUE(Nm)	5.00
SHAFT MAXIMUM AXIAL LOAD(N)	50
SHAFT MAXIMUM RADIAL LOAD(N)	100
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)

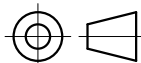
STEP	A+	B+	A-	B-	CW	CCW
1	+	+	-	-	↓	↑
2	-	+	+	-	↓	↑
3	-	-	+	+	↓	↑
4	+	-	-	+	↓	↑

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	A+	A-	B+	B-
1	A+	BLK	⊕	⊖	⊕	⊖
2	A-	GRN	⊕	⊖	⊕	⊖
3	B+	RED	⊕	⊖	⊕	⊖
4	B-	BLU	⊕	⊖	⊕	⊖

**OSMTEC**®  
Stepper Motor Specialists



mm			
UNITS	DRN	ZPJ	1.7.2026
1:1	APVD	YSX	1.7.2026
SCALE	SIGNATURE	DATE	

**GEARBOX MOTOR**  
17HS19-1684S-PG51