



SPECIFICATION	VALUE
AMPS/PHASE	2.90
RESISTANCE/PHASE(Ohms)@25°C	1.13±10%
INDUCTANCE/PHASE(mH)@1KHz	4.80±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	1.89[16.73]
GEAR RATIO	10
EFFICIENCY	90%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD	<=30arcmin
MAX.PERMISSIBLE TORQUE(Nm)	10.00
MOMENT PERMISSIBLE TORQUE(Nm)	20.00
SHAFT MAXIMUM AXIAL LOAD(N)	200
SHAFT MAXIMUM RADIAL LOAD(N)	400
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**<sup>®</sup>  
Stepper Motor Specialists

mm			
UNITS	DRN	ZPJ	1.9.2026
2:3	APVD	-	12.25.2025
SCALE	SIGNATURE	DATE	

**GEARBOX MOTOR**  
**23HS30-2904S-MG10**