

MOTOR CONNECTION			
PIN NO	BIPOLAR	LEADS	WINDING
1	A+	BLK	
2	A-	GRN	
3	B+	RED	
4	B-	BLU	
5	O+	YEL	
6	O-	WHT	

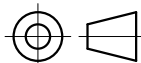
SPECIFICATION	VALUE
AMPS/PHASE	0.50
RESISTANCE/PHASE(Ohms)@25°C	13.50±10%
INDUCTANCE/PHASE(mH)@1KHz	2.50±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.018[0.16]
GEAR RATIO	90.25
EFFICIENCY	70.00%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD	<=3°
MAX.PERMISSIBLE TORQUE(Nm)	0.50
MOMENT PERMISSIBLE TORQUE(Nm)	1.00
SHAFT MAXIMUM AXIAL LOAD(N)	5.00
SHAFT MAXIMUM RADIAL LOAD(N)	25.00
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

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



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

**GEARBOX MOTOR**  
 8HS12-0506S-PG90