



SPECIFICATION	VALUE
AMPS/PHASE	1.50
RESISTANCE/PHASE(Ohms)@25°C	2.80±10%
INDUCTANCE/PHASE(mH)@1KHz	3.80±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.40[3.54]
GEAR RATIO	13 ²¹² / ₂₈₉
EFFICIENCY	80.00%
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)						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			
STEP	A+	B+	A-	B-	CW		PIN NO	BIPOLAR	LEADS	
1	+	+	-	-		1	A+	BLK		
2	-	+	+	-		2	A-	GRN		
3	-	-	+	+		3	B+	RED		
4	+	-	-	+		4	B-	BLU		

OSMTEC®
Stepper Motor Specialists

mm			
UNITS	DRN	ZPJ	1.9.2026
1:1	APVD	YSX	1.9.2026
SCALE	SIGNATURE	DATE	

GEARBOX MOTOR
14HS20-1504D-PG14