



SPECIFICATION	CONNECTION	BIPOLAR
AMPS/PHASE		1.00
RESISTANCE/PHASE(Ohms)@25°C		3.50±10%
INDUCTANCE/PHASE(mH)@1KHz		3.50±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]		0.125[1.11]
GEAR RATIO		19 <sup>38</sup> / <sub>187</sub>
EFFICIENCY		81.00%
STEP ANGLE w/o GEARBOX(°)		1.80
BACKLASH@NO-LOAD		<=1°
MAX.PERMISSIBLE TORQUE(Nm)		3.00
MOMENT PERMISSIBLE TORQUE(Nm)		5.00
SHAFT MAXIMUM AXIAL LOAD(N)		50.00
SHAFT MAXIMUM RADIAL LOAD(N)		100.00
WEIGHT(Kg)[lb]		—
TEMPERATURE RISE:MAX.80°C ( MOTOR STANDSTILL;FOR 2PHASE ENERGIZED )		
AMBIENT TEMPERATURE -10°C~50°C[14°F~122°F]		
INSULATION CLASS B 130°C[266°F]		

PIN NO	TYPE OF CONNECTION (EXTERN)		MOTOR	
	BIPOLAR	LEADS	LEADS	WINDING
1	A+ —	BLK	A+	
2	A- —	GRN	A-	
3	B+ —	RED	B+	
4	B- —	BLU	B-	

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

STEP	A+	B+	A-	B-		CCW
1	+	+	-	-		
2	-	+	+	-		
3	-	-	+	+		
4	+	-	-	+		

ENCODER CONNECTION:1000PPR(4000CPR)									
LEAD COLOR	RED	BLK	BRN	ORG	BLU	GRN	YEL	PUR	
DESCRIPTION	+5V	EGND	EA+	EA-	EB+	EB-	EZ+	EZ-	



APVD		11.14.2022
CHKD		
1:1	DRN	
SCALE	SIGNATURE	DATE

**STEPPER MOTOR**  
**14HS11-1004-ME1K**