



NOTE:

1. THE KEY DOES NOT NEED TO BE INSTALLED AND IS SHIPPED WITH THE MOTOR.
2. MOUNTING MOTOR AND GEARBOX WITHOUT GLUE. EASY TO DISASSEMBLE.
3. THE DEPTH OF THE FOUR FIXING HOLES M4 AT THE INPUT END OF THE GEARBOX IS THROUGH.
4. THE FOUR M4 SETSCREWS ARE REPLACED WITH LONGER SCREWS TO INSTALL THE AR4 KIT.

SPECIFICATION		CONNECTION		BIPOLAR	
AMPS/PHASE				2.80	
RESISTANCE/PHASE(Ohms)@25°C				0.90±10%	
INDUCTANCE/PHASE(mH)@1KHz				2.80±20%	
HOLDING TORQUE w/o GEARBOX (Nm)[lb-in]				1.02[9.03]	
GEAR RATIO				50	
EFFICIENCY				94.00%	
STEP ANGLE w/o GEARBOX(°)				1.80	
BACKLASH@NO-LOAD(arcmin)				<=15	
MAX.PERMISSIBLE TORQUE(Nm)				25.00	
MOMENT PERMISSIBLE TORQUE(Nm)				50.00	
WEIGHT(kg)				—	
LIFE(h)				6000.00	
AMBIENT TEMPERATURE(°C)				-10 ~ 50	
INSULATION CLASS				B	
MAX. AXIAL LOAD(N)				230	
MAX. RADIAL LOAD(N)				400	

TYPE OF CONNECTION (EXTERN)		MOTOR	
PIN NO	BIPOLAR	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	+	-	-	+	CW	

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

APVD		2.13.2023
CHKD		
1:1.5	DRN	
SCALE	SIGNATURE	DATE

STEPPER MOTOR	
23HS22-2804D-YGS50-AR4	

