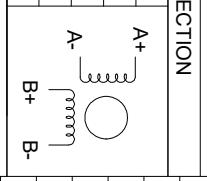


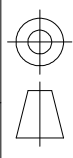
NOTE:  
 1. THE KEY DOES NOT NEED TO BE INSTALLED AND IS SHIPPED WITH THE MOTOR.  
 2. MOUNTING MOTOR AND GEARBOX WITHOUT GLUE. EASY TO DISASSEMBLE.  
 3. THE DEPTH OF THE FOUR FIXING HOLES M4 AT THE INPUT END OF THE GEARBOX IS THROUGH.  
 4. THE FOUR M4 SETSCREWS ARE REPLACED WITH LONGER SCREWS TO INSTALL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

ENCODER CONNECTION:1000PPR(4000CPR)

LEAD COLOR	RED	BLK	BRN	ORG	BLU	GRN	YEL	WHT
DESCRIPTION	+5V	EGND	EA+	EA-	EB+	EB-	EZ+	EZ-



SPECIFICATION	VALUE
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.PERMISIBLE TORQUE(Nm)	25.0
MOMENT PERMISSIBLE TORQUE(Nm)	50.0
SHAFT MAXIMUM AXIAL LOAD(N)	230
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)	UNIT mm	PIN NO	BIPOLAR LEADS
STEP 1	GB/T 1804-M EQV/ISO 2768-1 CLASS M: <=±6	1	A+ BLK
STEP 2	>±6-±30	2	A- GRN
STEP 3	>±30-±120	3	B+ RED
STEP 4	>±120-±400	4	B- BLU

# OSMTEC®

Stepper Motor Specialists

mm		UNITS	
DRN	LDJ	1.9.2026	
APVD	ZPJ	1.19.2026	
SCALE		SIGNATURE	
DATE		DATE	

## PLANETARY GEARBOX

23HS22-2804D-YGS50-AR4