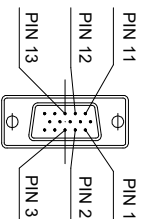
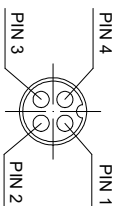


B VIEW

A VIEW



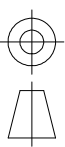
ENCODER RESOLUTION:1000PPR(4000CPR)

15-PIN DB MALE PLUG	1	2	3	11	12	13
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DESCRIPTION	EA+	VCC	GND	EB+	EB-	EA-
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FULL STEP 2 PHASE-Ex. WHEN FACING MOUNTING END (X)		MOTOR CONNECTION				
STEP	A+	B+	A-	B-	CCW	CW
1	+	+	-	-	←	→
2	-	+	+	-	←	→
3	-	-	+	+	←	→
4	+	-	-	+	←	→

UNIT mm
GB/T 1804-M EQV/ISO 2768-1 CLASS M:
≤±6
+0.1
-0.2
>6-30
±0.3
>30-120
±0.5
>120-400



SPECIFICATION	VALUE
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AMPS/PHASE	4.0
RESISTANCE/PHASE(Ohms)@25°C	0.45±10%
INDUCTANCE/PHASE(mH)@1KHz	1.30±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	1.20[10.62]
GEAR RATIO	50
EFFICIENCY	75%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(arcmin)	≤96
MAX. PERMISSIBLE TORQUE(Nm)	20
MOMENT PERMISSIBLE TORQUE(Nm)	40
SHAFT MAXIMUM AXIAL LOAD(N)	-
SHAFT MAXIMUM RADIAL LOAD(N)	-
AMBIENT TEMPERATURE	-10°C-50°C[14°F-122°F]
INSULATION CLASS	B 130°C[266°F]
TEMPERATURE RISE	MAX.80°C

OSMTEC®

Stepper Motor Specialists

mm	DRN	LDJ	1.7.2026
UNITS	APVD	ZPJ	
2:3	SIGNATURE	DATE	
SCALE			

PLANETARY GEARBOX MOTOR
23HS22-HG50-E1000