



ENCODER RESOLUTION:1000PPR(4000CPR)

LEAD COLOR	RED	BLK	WHT	YEL	ORG	GRA	GRN	BLU
DESCRIPTION	VCC	GND	EA+	EA-	EB+	EB-	EZ+	EZ-

FULL STEP 2 PHASE-EX. WHEN FACING MOUNTING END (X)	STEP	A+	B+	A-	B-	CCW	CW	UNIT mm
	1	+	+	-	-	←	→	GRIT 180#M EQUIVISO 2/8-1 CLASS W: ≤6 8-30 30-120 120-400
	2	-	+	+	-	←	→	±0.1
	3	-	-	+	+	←	→	±0.2
4	+	-	-	+	←	→	±0.3	
								±0.5

MOTOR CONNECTION			
PIN NO	BIPOLAR	LEADS	A+
1	A+	BLK	○
2	A-	GRN	○
3	B+	RED	○
4	B-	BLU	○



SPECIFICATION	VALUE
AMPS/PHASE	1.00
RESISTANCE/PHASE(Ohms)@25°C	2.00±10%
INDUCTANCE/PHASE (mH)@1KHz	1.50±20%
HOLDING TORQUE w/o GEARBOX(Nm)[lb-in]	0.06(0.53)
GEAR RATIO	26 ¹⁰³ / ₁₂₁
EFFICIENCY	80%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(°)	<=3
MAX. PERMISSIBLE TORQUE(Nm)	3
MOMENT PERMISSIBLE TORQUE(Nm)	5
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		
UNITS	DRN	LDJ
3:2	APVD	ZPJ
SCALE	SIGNATURE	DATE

GEARBOX MOTOR

11HS12-1004D-E1000-PG27