



ENCODER RESOLUTION:1000PPR(4000CPR)

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

STEP	A+	B+	A-	B-	CCW	CW	UNIT mm
1	+	+	-	-	←	→	GRIT 180#4-M EQUIV ISO 278-1 CLASS M: ≤6 ±0.1 >6-30 ±0.2 >30-120 ±0.3 >120-400 ±0.5
2	-	+	+	-	←	→	
3	-	-	+	+	←	→	
4	+	-	-	+	←	→	

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

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	99.548
EFFICIENCY	70%
STEP ANGLE w/o GEARBOX(°)	1.80
BACKLASH@NO-LOAD(°)	<=3
MAX.PERMISIBLE 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



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mm	DRN	LDJ
UNITS	3:2	APVD
SCALE	SIGNATURE	DATE

PLANETARY GEARBOX MOTOR
11HS12-1004D-E1000-PG100