



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)		UNIT mm	GRT 1804M ECV/SO Z78-1 CLASS W: ≤ 6 $\pm 0.1</math> $6-30$ \pm 0.2</math> $30-120$ \pm 0.3</math> $120-400$ \pm 0.5</math> $			
STEP	A+	B+		A-	B-	CCW
1	+	+		-	-	↶
2	-	+		+	-	↷
3	-	-	+	+		
4	+	-	-	+	CW	

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	3.50±10%
INDUCTANCE/PHASE (mH)@1KHz	3.20±20%
HOLDING TORQUE w/o GEARBOX (Nm)[lb-in]	0.14[1.24]
GEAR RATIO	5 $\frac{1}{2}$
EFFICIENCY	90%
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



INSULATION CLASS B 130°C[266°F]
TEMPERATURE RISE MAX.80°C



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

PLANETARY GEARBOX MOTOR
11HS20-1004D-E1000-PG5