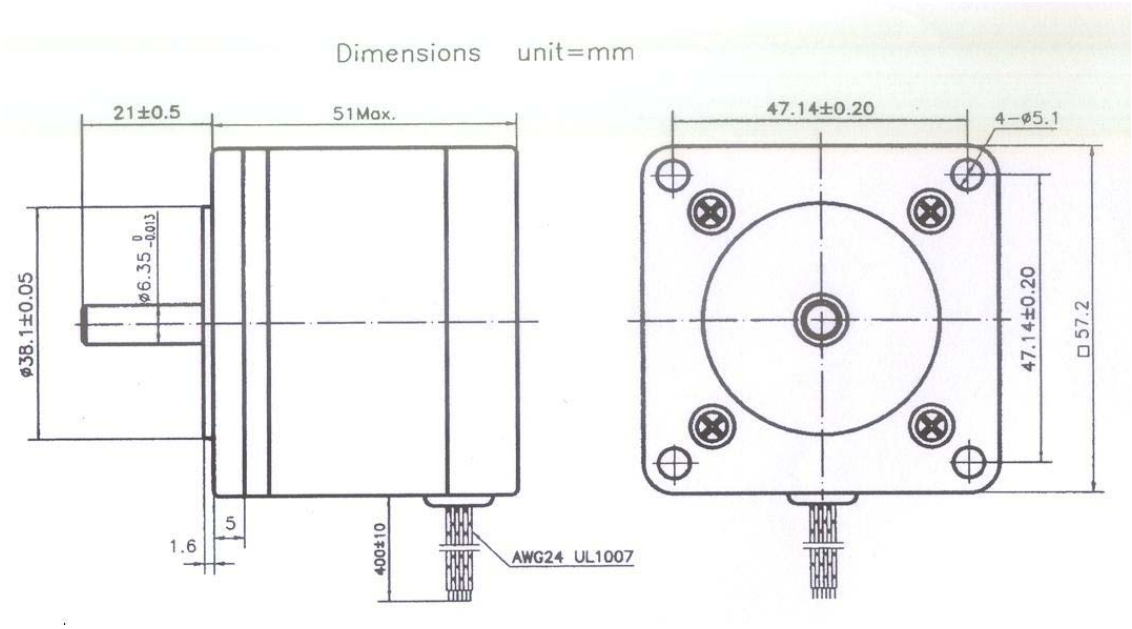
Stepping Motor
Y163

Technical Information



Specification	Y163
Step Angle	1.8
Number of Phase	4
Insulation resistance M ohm Min (500V DC)	100
Insulation Class	B
Rotor Inertia g.cm^2	120 g.cm^2
Mass Kg	.52
Detent Torque mNm	35
Rated Voltage V	5.0
Rated Current A	1.0
Resistance per phase ohm	5.0
Induction per phase mH	7.5
Holding Torque:- (two phase on)	
(uni-polar connection 1.0Amp)	0.5 Nm
(Bi-polar series connection 0.7 Amp)	0.62 Nm
(Bi-polar parallel connection 1.41 Amp)	0.62 Nm

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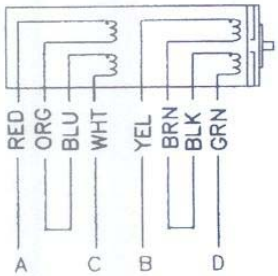
Stepping Motor
Y163

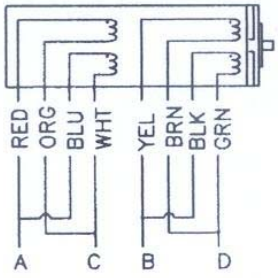
Technical Information

CONNECTION DIAGRAM

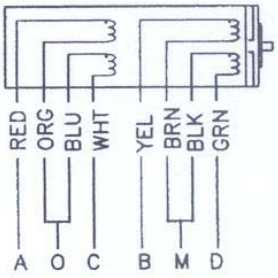
1. BI-POLAR SERIES



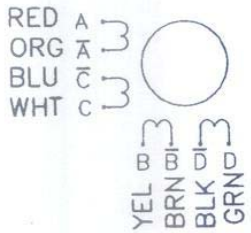
2. BI-POLAR PARALLEL



3. UNI-POLAR



WIRING DIAGRAM



DRIVE SEQUENCE MODEL

1. BI-POLAR FULL STEP

STEP	A	B	C	D
1	+	+	−	−
2	−	+	+	−
3	−	−	+	+
4	+	−	−	+

CW ↓ CCW ↑

2. UNI-POLAR FULL STEP

STEP	A	B	C	D	O	M
1	−	−			+	+
2		−	−		+	+
3			−	−	+	+
4	−			−	+	+

CW ↓ CCW ↑

CW(CLOCKWISE)&CCW(COUNTER CLOCKWISE) ROTATION
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

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