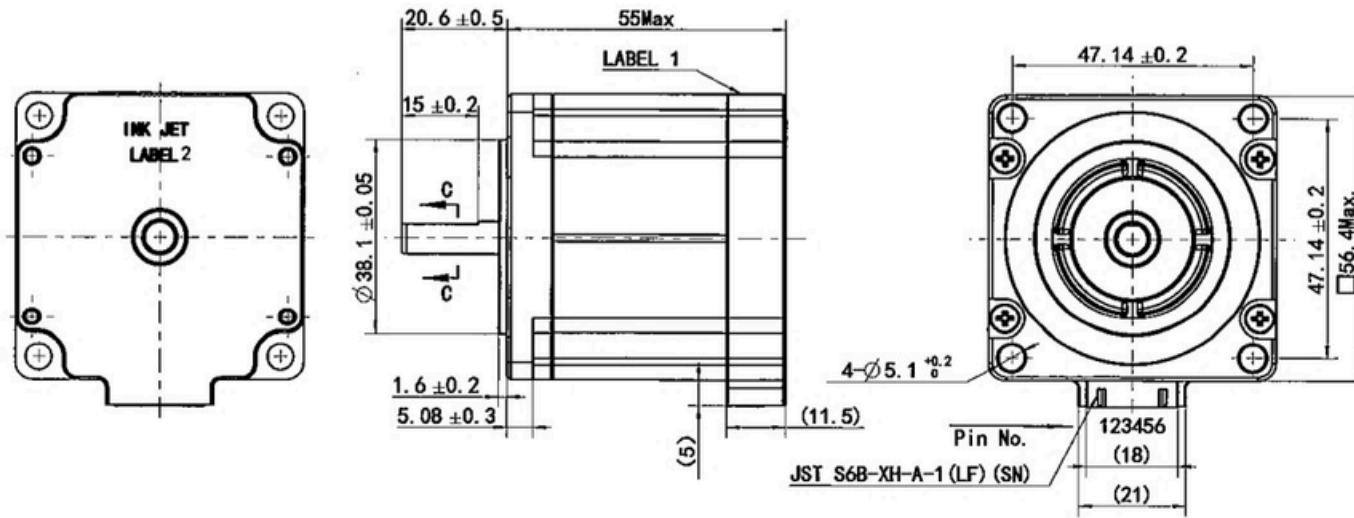
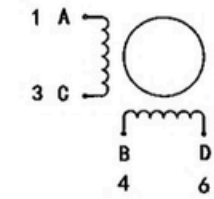


MS23HA8P4220



Wiring Diagram



Exciting Sequence vs. Direction of Rotation

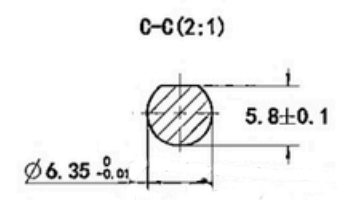
STEP	A	B	C	D	CCW
1	+	+	-	-	↑
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

Clockwise view from mounting side

1. Number of Phase	2
2. Step Angle	0.9°
3. Rated Voltage	3.52 V DC
4. Rated Current	2.2 Amp
5. Holding Torque	1.5 Nm Typ. (Two phase on/rated current)
6. Phase Resistance	1.6 ohm ± 10% (20°C)
7. Phase Inductance	10.5 mH ± 20% (1kHz 1V rms)
8. Rotor Inertia	220 gcm ²
9. Motor Weight	0.6 kg
10. Insulation Class	B (130°C)

Label1 Detail

STEPPING MOTOR
 Insulation: Class B, 60VDC Max.
 2.2Amps Holding: 1.5Nm
 3000RPM Max. **CAI** US
 UL FILE No. E465363 XXX Factory ID



Label2 Detail

TYPE MS23HA8P4220
 XXXXXXXX YY/MM/DD
 Work Order Date Format

Unit:mm	First angle method	Tolerances for linear and angular dimensions without individual tolerance indications GB/T 1804-m eqv ISO 2768-1:m	Geometrical tolerance for features without individual tolerance indications GB/T 1184-K eqv ISO 2768-2:K	UNLESS OTHERWISE SPECIFIED	Approve	Standardize	Process Review	Check	Design	NAMES	SIGNATURE	DATE	Drawing No: 4611110015315	Rev. A1	SCALE: 1:1	Sheet 1 of 1
A1	EGR: 23-317, There are two positions	2023.03.17														
A0	Original revision	2017.04.05														
REV.	REVISION RECORD	DATE														

