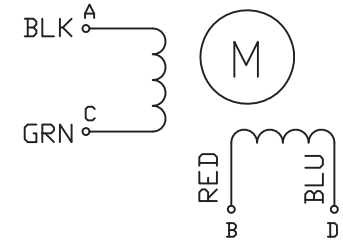


Wiring Diagram



3	GND
2	VCC(5V)
13	EA-
1	EA+
12	EB-
11	EB+

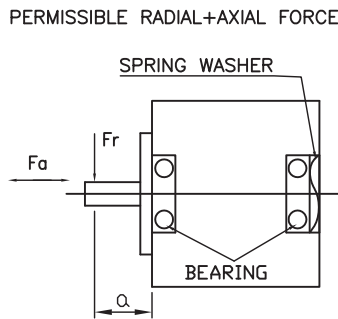
Exciting Sequenc

CCW DIRECTION	STEP	A	C	B	D
↓	1	+		+	
	2		+	+	
	3		+		+
	4	+			+
	1	+		+	

CCW, see from flange side

SPECIFICATION

STEP ANGLE	1.8°/full step	PERMISSIBLE RADIAL+AXIAL FORCE	
STEP ANGLE ACCURACY	±5%		
NUMBER OF PHASE	2		
RATED VOLTAGE	2.8VDC		
RATED CURRENT	4.0A		
RESISTANCE/PHASE	0.7±0.1 ohms@20°C		
INDUCTANCE/PHASE	2.5±20% mH@1kHz		
HOLDING TORQUE	2.2N.m 2 phase on		
PULL OUT TORQUE	N.m@ RPM		
BACK EMF	V @300RPM		
DETENT TORQUE	N.cm		
ROTOR INERTIA	480 g.cm²		
WEIGHT	1.1kg		
TEMPERATURE RISE	Less than 80K	AXIAL-FORCE	Fa=15 N Max.
SOURCE VOLTAGE	90 VDC	RADIAL-FORCE	Fr=75 N Max.
INSULATION CLASS	B 130°C	DISTANCE	a=20 mm
DIELECTRIC STRENGTH	500VAC 1MIN		
INSULATION RESISTANCE	100MΩ @500VDC	SHAFT RADIAL PLAY	0.02mm Max. @4N
IP CODE	IP30	SHAFT AXIAL PLAY	0.08mm Max. @4N
OPERATION AMBIENT	Ambient temperature:-25...+40°C, humidity Max. 85%(No condensation)		
STORAGE AMBIENT	Ambient temperature:-10...+35°C, humidity Max. 85%(No condensation)		



REV	ECN NO.	DESCRIPTION	DRN	APP'D	DATE	DESIGN	DATE	P/N.
UNLESS OTHERWISE SPECIFIED TOLERANCES:						MATERIAL	CONTR.	CHECK
DECIMALS: .x ±0.5								
ANGULAR: .xx ±0.25								
.xxx ±0.1								
UNIT: mm								
DO NOT SCALE DRAWING						FIRST ANGLE PROJECTION	SCALE	NTS
							SHEET	OF
								TITLE Specifications
								USED ON
								DWG NO.
								REV
								MST232B083Z0E24.0Q