

Stepper motor

Sr. No	Parameter	Value	Unit	Remark
1	Type: 3-wire, 4-wire, 5 wire	4-wire		
2	Type: Permanent magnet (PM)/ Variable reluctance (VR)/ Hybrid	Permanent magnet (PM)		
3	Colour codes of wire	Coil1 Black Coil2 Yellow Coil3 Green Coil4 Red		
4	DC voltage required	12	V	
5	Coil resistance	120	Ohm	
6	Current required for each coil	0.1	A	
7	Pulse frequency	24	Hz	
8	Pulse width	10	ms	
9	Duty cycle	25	%	
10	Min rotation angle	1.8	°	
11	No. of pulses required for 1 rotation (360 °)	16	--	
12	No. of steps required to achieve 90 ° rotation	50		
13	No. of pulses required for 1 step	4		
14	Frequency for 10 rotation /min	0.66	Hz	
15	Revolution per minute = 60 x steps per second/ steps per revolution	360	rpm	