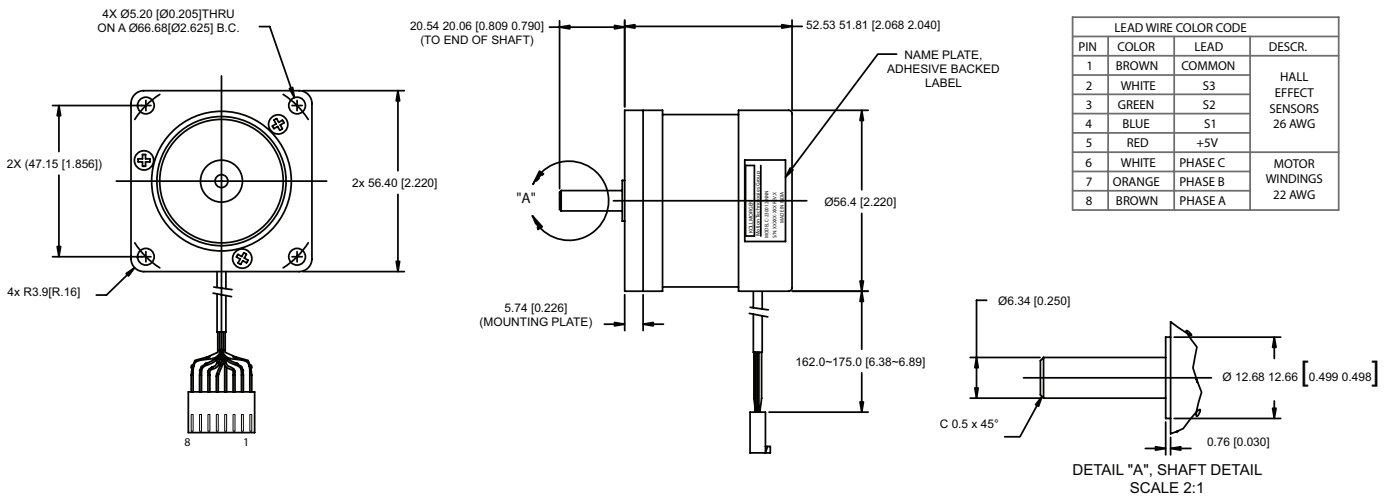
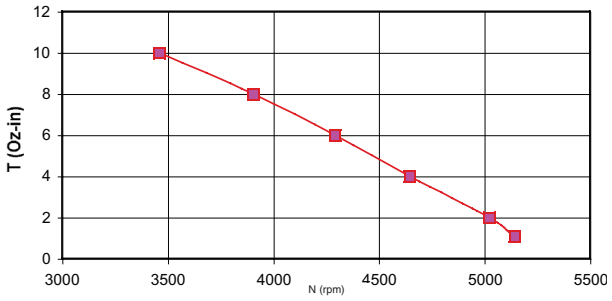


LEAD WIRE COLOR CODE			
PIN	COLOR	LEAD	DESCR.
1	BROWN	COMMON	HALL EFFECT SENSORS 26 AWG
2	WHITE	S3	
3	GREEN	S2	
4	BLUE	S1	
5	RED	+5V	
6	WHITE	PHASE C	MOTOR WINDINGS 22 AWG
7	ORANGE	PHASE B	
8	BROWN	PHASE A	

Motor Type

Coil dependent parameters / Winding type	Units	C-230012-12B	C-230012-20A	C-230012-24C
1. DC Resistance at 25°C (line-to-line) / ±10%	Ohm	0.25	0.5	0.75
2. Inductance at 1000 Hz (line-to-line) ±20%	mH	0,35	1,1	1,65
3. Back - EMF Constant (line-to-line) ±10%	V/1000 rpm	2,35	4,3	5,2
4. Torque Constant ±10%	mNm/Amp	22.5	40.9	48.7
5. Max. Continuous Current	Amp	6,3	4,5	3,7
Coil independent parameter				
6. Max. Continuous Torque	mNm	142.6	181.5	179.4
Mechanical parameters				
7. Rotor Inertia	Oz-In-Sec2	0.00143	0.00143	0.00143
Dynamic performances				
8. Rated Voltage	Volt	12	20	24
9. Max. No Load Current	Amp	0.75	0.5	0.4
10. Max. No Load Speed	Rpm	5650	5500	5120
11. Thermal Resistance	°C/Watt	4.5	4.5	4.5

Speed v/s Torque Curve



C-230012-12B

Motor Characteristics

- Motor with preloaded ball bearings
- Motor with three phase star connection of the coils
- Hall sensors: Supply voltage 4.5V to 20 VDC
- 4 pole design

Note: 1) Above models can be supplied with special mounting configuration such as shaft with flat end, tapping, undercuts & end bells with a variety of holes, tapping requirement on requests
2) Above models can be supplied with attachment of gear/pulley/drive electronics on requests