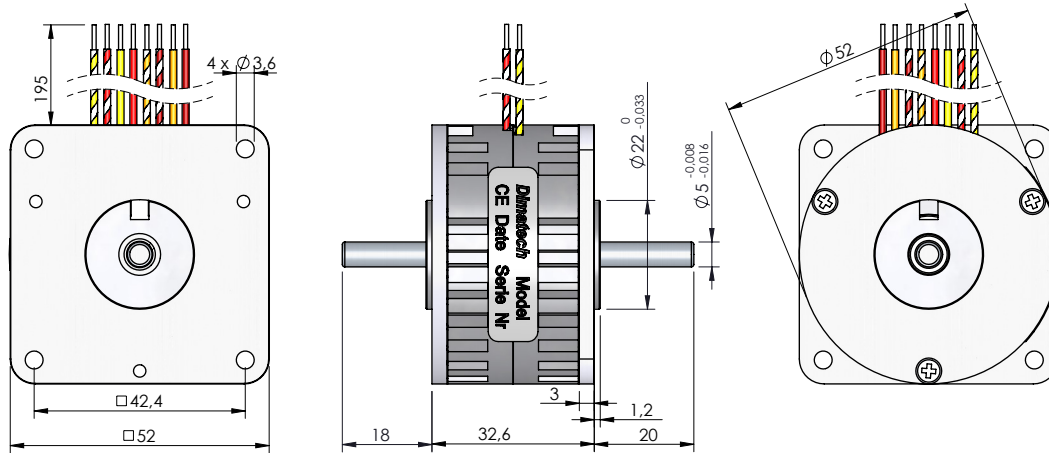
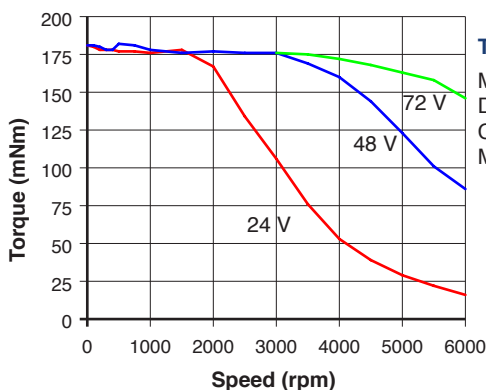


2-phase stepper motor, 100 steps per revolution



			WINDING				
			A		B		
Connection			parallel	serial	parallel	serial	
1	Phase resistance	ohm	± 14%	0.35	1.4	2.2	8.8
2	Phase inductance	mH	± 20%	0.7	2.8	5	20
3	Nominal current (1 phase ON)	A	typical	5.3	2.6	2	1
4	Boosted current (1 phase ON)	A	typical	12.2	6.1	4.6	2.3
5	Induced voltage at 600 rpm	V	± 10%	2.38	4.76	6.3	12.6
6	Torque constant	mNm/A	± 10%	37.9	75.8	100.3	200.5
7	Static torque	mNm	± 10%				200
8	Boosted static torque	mNm	typical				450
9	Reluctant torque	mNm	typical				20
10	Friction torque	mNm	max				7
11	Thermal resistance (coil-air)	°C/W	typical				7.3
12	Thermal time constant	min	typical				18
13	Max temperature for coils	°C	max				+100
14	Recom. ambient temperature range	°C	typical				-20 to +50
15	Number of pole pairs	-	-				25
16	Phase shift	degree	± 5				90
17	Phase fluctuation	degree	max				5
18	Maximum speed	rpm	max				5000
19	Rotor inertia	kgm ² · e ⁻⁷	typical				9.4
20	Weight	g	typical				250
21	Electrical time constant	ms	typical				2
22	Max angular acceleration (boosted)	rad/s ²	typical				450000
23	Insulation voltage	V	typical				500



Test conditions:
 Motor: DM50 coil A
 Driver: IDS640
 Current: 5.3 A
 Mode: micro-steps