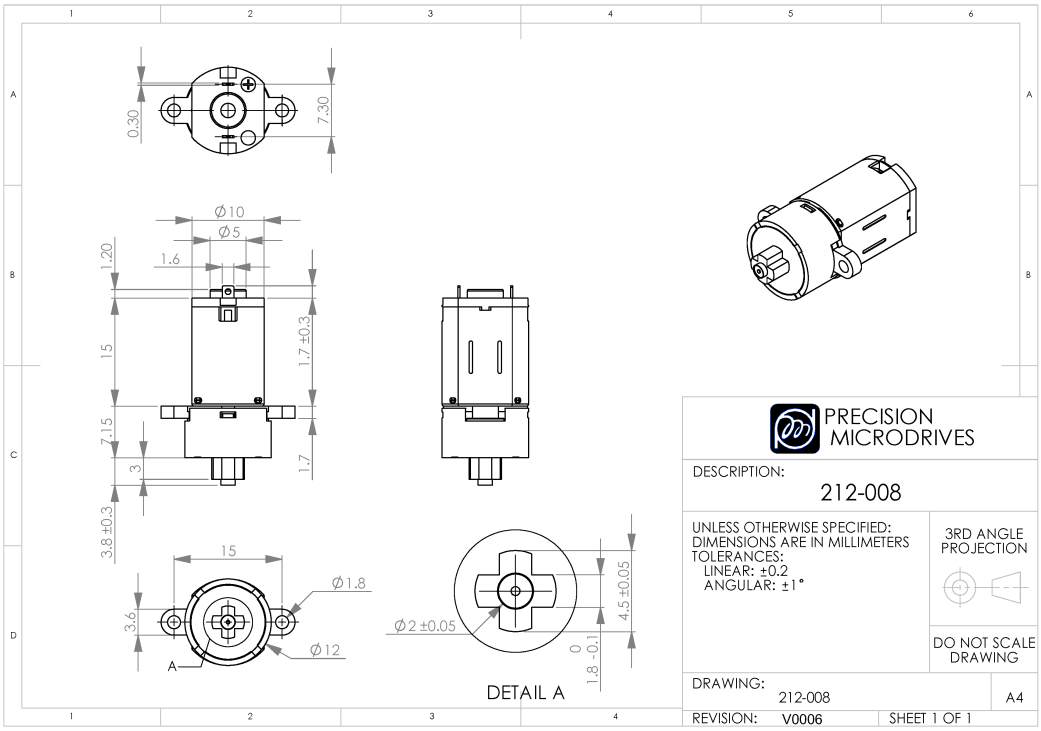
212-008 12mm DC Gearmotor - 22mm Type



			Samples available	Samples available		
		Units	212-008	212-108		
Design and Accessories						
1	Commutation		Precious Metal Brush	Precious Metal Brush		
2	No. of Output Shafts		1	1		
3	Unit Weight	g	6.5	6.5		
4	Body Diameter	mm	12	12		
5	Body Length	mm	22.15	22.15		
6	Rotation Direction		CW	CW		
7	Bearing Type		Sintered Bronze	Sintered Bronze		
Physical Characteristics						
8	Shaft Diameter	mm	4.5	4.5		
9	Shaft Length	mm	3.8	3.8		
10	Shaft Orientation		Inline	Inline		
11	Motor Construction		Iron Core	Iron Core		
Operational Characteristics						
12	Typical Max. Mech. Noise	dB(A)	60	60		
13	Rated Operating Voltage	V	2.5	5		
14	Rated Load	mN·m	20	20		
15	Rated Load Speed	rpm	42	46		
16	N/L Speed	rpm	73	70		
17	Max. Start Voltage	V	1.4	3.5		
18	Max. N/L Current	mA	60	36		
19	Max. Operating Voltage	V	3	6		
20	Max. Rated Load Current	mA	179	91		
21	Min. Insulation Resistance	MOhm	10	1		
22	Max. Start Current	mA	380	260		
23	Typical Rated Load Power Consumption	mW	375	380		
24	Typical N/L Current	mA	50	30		
25	Typical Peak Efficiency	%	29	32		
26	Typical Peak Eff. Torque	mN·m	18	20		
27	Typical Peak Eff. Speed	rpm	54	57		
28	Typical Peak Eff. Current	mA	139	78		
29	Typical Peak Eff. Power Out	mW	102	123		

30	Typical Start Current	mA	380	230
31	Typical Max. Output Power	mW	133	152
32	Typical Stall Torque	mN·m	48	50
Gear Characteristics				
33	Gear Ratio	:1	120	120
34	Gearhead Type		Planetary	Planetary
Winding Characteristics				
35	Typical Terminal Resistance	Ohm	5.3	20
36	Typical Terminal Inductance	uH	970	3,800
Environmental Characteristics				
37	Max. Operating Temp.	°C	60	60
38	Min. Operating Temp.	°C	-10	-10
39	Max. Storage & Transportation Temp.	°C	70	70
40	Min. Storage & Transportation Temp.	°C	-20	-20
Packaging				
41	No. Units per Carton	pcs	500	500
42	Carton Type		Boxed Trays	Boxed Trays

Motor Body Characteristics			**Performance**
43	No. of Poles		
44	Shaft Axial Float	mm