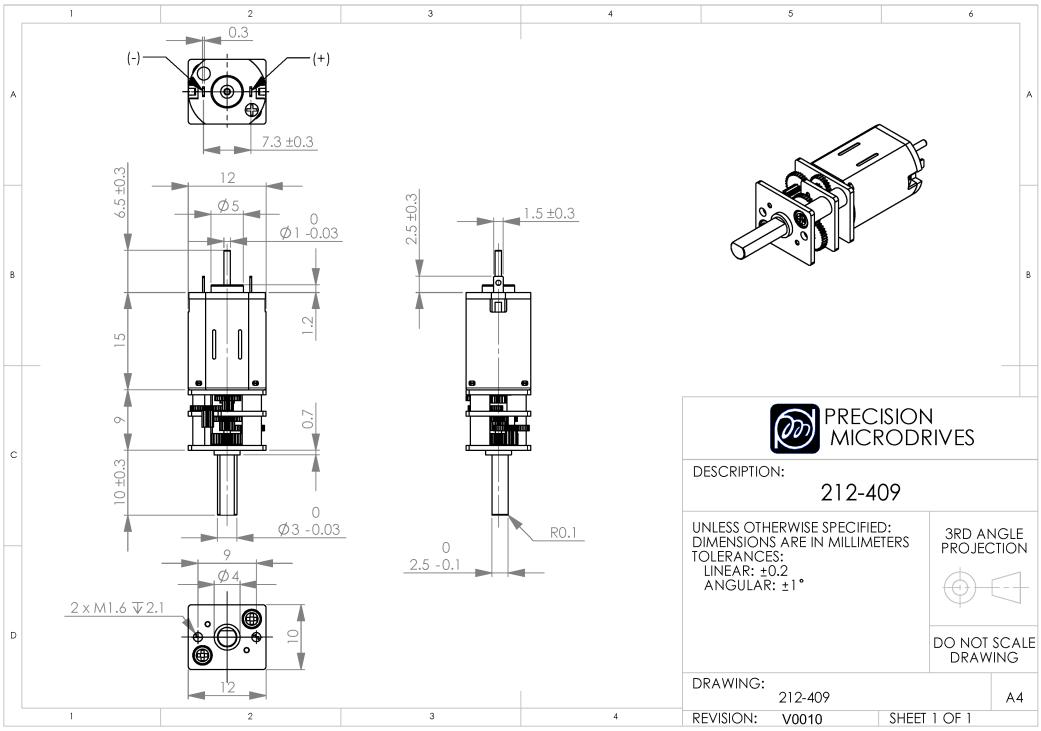
212-409 12mm DC Gearmotor - 24mm Type



			Samples available			
		Units	212-409			
Design and Accessories						
1	Commutation		Precious Metal Brush			
2	No. of Output Shafts		2			
3	Unit Weight	g	9.5			
4	Body Diameter	mm	12			
5	Body Length	mm	24			
6	Rotation Direction		CW			
7	Bearing Type		Sintered Bronze			
Physical Characteristics						
8	Shaft Diameter	mm	3			
9	Shaft Length	mm	8			
10	Shaft Orientation		Inline			
11	Rear Shaft Diameter	mm	1			
12	Rear Shaft Length	mm	6			
13	Motor Construction		Iron Core			
Operational Characteristics						
14	Typical Max. Mech. Noise	dB(A)	50			
15	Rated Operating Voltage	V	12			
16	Rated Load	mN·m	50			
17	Rated Load Speed	rpm	47			
18	N/L Speed	rpm	72			
19	Max. Start Voltage	V	2.2			
20	Max. N/L Current	mA	42			
21	Max. Operating Voltage	V	12			
22	Max. Rated Load Current	mA	145			
23	Min. Insulation Resistance	MOhm	1			
24	Max. Start Current	mA	290			
25	Typical Rated Load Power Consumption	mW	1,450			
26	Typical N/L Current	mA	35			
27	Typical Peak Efficiency	%	21			
28	Typical Peak Eff. Torque	mN·m	53			
29	Typical Peak Eff. Speed	rpm	58			

30	Typical Peak Eff. Current	mA	125
31	Typical Peak Eff. Power Out	mW	320
32	Typical Start Current	mA	290
33	Typical Max. Output Power	mW	385
34	Typical Stall Torque	mN·m	132
Gear Characteristics			
35	Gear Ratio	:1	297.9
36	Gearhead Type		Spur
Winding Characteristics			
37	Typical Terminal Resistance	Ohm	28
38	Typical Terminal Inductance	uH	3,800
Environmental Characteristics			
39	Max. Operating Temp.	°C	50
40	Min. Operating Temp.	°C	-10
41	Max. Storage & Transportation Temp.	°C	60
42	Min. Storage & Transportation Temp.	°C	-20
Packaging			
43	No. Units per Carton	pcs	500
44	Carton Type		Boxed Trays

Motor Body Characteristics

45	No. of Poles	
46	Shaft Axial Float	mm
47	Max. Axial Compression	N
48	Max. Radial Load	mN

Performance