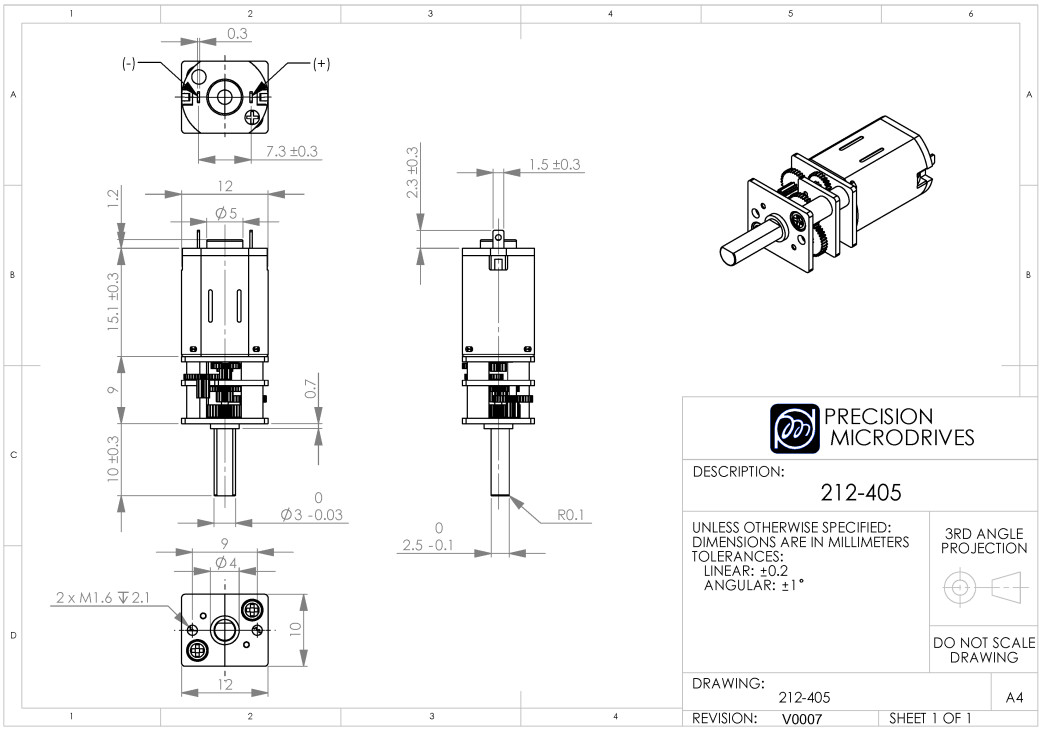
212-405 12mm DC Gearmotor - 24mm Type



			Samples available			
		Units	**212-405**			
Design and Accessories						
1	Commutation		Precious Metal Brush			
2	No. of Output Shafts		1			
3	Unit Weight	g	9.3			
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	Motor Construction		Iron Core			
Operational Characteristics						
12	Typical Max. Mech. Noise	dB(A)	60			
13	Rated Operating Voltage	V	12			
14	Rated Load	mN·m	20			
15	Rated Load Speed	rpm	137			
16	N/L Speed	rpm	230			
17	Max. Start Voltage	V	1.4			
18	Max. N/L Current	mA	36			
19	Max. Operating Voltage	V	12			
20	Max. Rated Load Current	mA	161			
21	Min. Insulation Resistance	MOhm	1			
22	Max. Start Current	mA	265			
23	Typical Rated Load Power Consumption	mW	1,370			
24	Typical N/L Current	mA	30			
25	Typical Peak Efficiency	%	22			
26	Typical Peak Eff. Torque	mN·m	22			
27	Typical Peak Eff. Speed	rpm	166			
28	Typical Peak Eff. Current	mA	139			
29	Typical Peak Eff. Power Out	mW	374			

30	Typical Start Current	mA	265
31	Typical Max. Output Power	mW	434
32	Typical Stall Torque	mN·m	39
Gear Characteristics			
33	Gear Ratio	:1	99
34	Gearhead Type		Spur
Winding Characteristics			
35	Typical Terminal Resistance	Ohm	29
36	Typical Terminal Inductance	uH	4,100
Environmental Characteristics			
37	Max. Operating Temp.	°C	50
38	Min. Operating Temp.	°C	-10
39	Max. Storage & Transportation Temp.	°C	80
40	Min. Storage & Transportation Temp.	°C	-40
Packaging			
41	No. Units per Carton	pcs	500
42	Carton Type		Boxed Trays

Motor Body Characteristics		
43	No. of Poles	
44	Shaft Axial Float	mm
45	Max. Axial Compression	N
46	Max. Radial Load	mN

Performance