



PRECISION MICRODRIVES

DESCRIPTION: **212-104**

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 SURFACE FINISH: N7
 TOLERANCES:
 LINEAR: ±0.2
 ANGULAR: ±1°

3RD ANGLE PROJECTION

DO NOT SCALE DRAWING

DRAWING: 212-104
 REVISION: V0008 SHEET 1 OF 1 A4

		Samples available	
Units		212-104	

Design and Accessories

1	Commutation		Precious Metal Brush
2	No. of Output Shafts		1
3	Unit Weight	g	9.6
4	Body Diameter	mm	12
5	Body Length	mm	24
6	Rotation Direction		CCW
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	3
14	Rated Load	mN·m	25
15	Rated Load Speed	rpm	38
16	N/L Speed	rpm	69
17	Max. Start Voltage	V	1
18	Max. N/L Current	mA	67
19	Max. Operating Voltage	V	3.6
20	Max. Rated Load Current	mA	174
21	Min. Insulation Resistance	MOhm	1
22	Max. Start Current	mA	350
23	Typical Rated Load Power Consumption	mW	435
24	Typical N/L Current	mA	56
25	Typical Peak Efficiency	%	28
26	Typical Peak Eff. Torque	mN·m	25
27	Typical Peak Eff. Speed	rpm	48
28	Typical Peak Eff. Current	mA	144
29	Typical Peak Eff. Power Out	mW	124

30	Typical Start Current	mA	350
31	Typical Max. Output Power	mW	153
32	Typical Stall Torque	mN-m	40

Gear Characteristics

33	Gear Ratio	:1	150
34	Gearhead Type		Spur

Winding Characteristics

35	Typical Terminal Resistance	Ohm	6.5
36	Typical Terminal Inductance	uH	1,000

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	1,000
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

