



 PRECISION MICRODRIVES	
DESCRIPTION: 212-400	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: LINEAR: $\pm 0.2$ ANGULAR: $\pm 1^\circ$	3RD ANGLE PROJECTION  DO NOT SCALE DRAWING
DRAWING: 212-400	A4
REVISION: V0008	SHEET 1 OF 1

	Samples available			
	Units	212-400		

#### Design and Accessories

1	Commutation	Precious Metal Brush
2	No. of Output Shafts	1
3	Unit Weight	g 9.5
4	Body Diameter	mm 12
5	Body Length	mm 25
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	Rated Operating Voltage	V 12
13	Rated Load	mN·m 5
14	Rated Load Speed	rpm 595
15	N/L Speed	rpm 760
16	Max. Start Voltage	V 1.2
17	Max. N/L Current	mA 30
18	Max. Operating Voltage	V 14.4
19	Max. Rated Load Current	mA 85
20	Min. Insulation Resistance	MΩ 1
21	Max. Start Current	mA 450
22	Typical Rated Load Power Consumption	mW 925
23	Typical N/L Current	mA 23
24	Typical Peak Efficiency	% 36
25	Typical Peak Eff. Torque	mN·m 6
26	Typical Peak Eff. Speed	rpm 550
27	Typical Peak Eff. Current	mA 82
28	Typical Peak Eff. Power Out	mW 350
29	Typical Start Current	mA 250

30	Typical Max. Output Power	mW	530
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**Gear Characteristics**

31	Gear Ratio	:1	29.5
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32	Gearhead Type		Spur
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**Winding Characteristics**

33	Typical Terminal Resistance	Ohm	30
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34	Typical Terminal Inductance	uH	4,800
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**Environmental Characteristics**

35	Max. Operating Temp.	°C	50
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36	Min. Operating Temp.	°C	-10
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37	Max. Storage & Transportation Temp.	°C	80
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38	Min. Storage & Transportation Temp.	°C	-40
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**Packaging**

39	No. of Units per Carton	pcs	500
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40	Carton Type		Boxed Trays
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**Motor Body Characteristics****Performance**

41	No. of Poles		
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42	Shaft Axial Float	mm	
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43	Max. Axial Compression	N	
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44	Max. Radial Load	mN	
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