

Planetary Gearheads

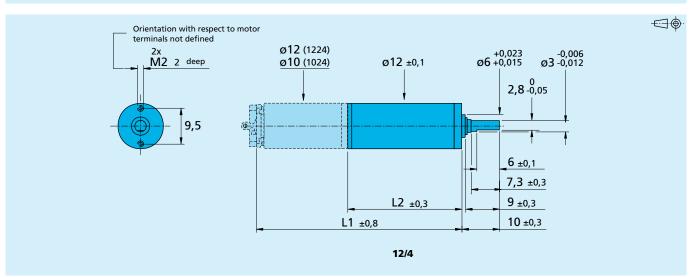
0,3 Nm

For combination with (overview on page 14-15) DC-Micromotors: 1024, 1224

Series 12/4

Housing material Geartrain material Recommended max. input speed for: - continuous operation Backlash, at no-load Bearings on output shaft Shaft load, max.: - radial (6 mm from mounting face) - axial Shaft press fit force, max. Shaft play (on bearing output): - radial - axial Operating temperature range metal netal netal metal netal metal netal n		12/4
Recommended max. input speed for: - continuous operation Backlash, at no-load Bearings on output shaft Shaft load, max.: - radial (6 mm from mounting face) - axial Shaft press fit force, max. Shaft play (on bearing output): - radial - axial Solution Sol	Housing material	metal
- continuous operation Backlash, at no-load Bearings on output shaft Shaft load, max.: - radial (6 mm from mounting face) - axial Shaft press fit force, max. Shaft play (on bearing output): - radial - axial Solution: - radial Solution: Sol	Geartrain material	metal
Backlash, at no-load ≤ 3° Bearings on output shaft sintered sleeve bearings Shaft load, max.: - radial (6 mm from mounting face) ≤ 4 N - axial ≤ 3 N Shaft press fit force, max. Shaft play (on bearing output): - radial - axial ≤ 0,03 mm - axial ≤ 0,1 mm	Recommended max. input speed for:	
Bearings on output shaft Shaft load, max.: - radial (6 mm from mounting face) - axial Shaft press fit force, max. Shaft play (on bearing output): - radial - axial ≤ 0,03 mm - axial ≤ 0,1 mm	- continuous operation	5 000 rpm
Shaft load, max.: - radial (6 mm from mounting face) ≤ 4 N - axial ≤ 3 N Shaft press fit force, max. ≤ 15 N Shaft play (on bearing output): < 15 N	Backlash, at no-load	≤ 3°
- radial (6 mm from mounting face) ≤ 4 N - axial ≤ 3 N Shaft press fit force, max. ≤ 15 N Shaft play (on bearing output): - radial ≤ 0,03 mm - axial ≤ 0,1 mm	Bearings on output shaft	sintered sleeve bearings
 - axial Shaft press fit force, max. ≤ 15 N Shaft play (on bearing output): - radial - axial ≤ 0,03 mm ≤ 0,1 mm 	Shaft load, max.:	-
Shaft press fit force, max. ≤ 15 N Shaft play (on bearing output): - radial - axial ≤ 0,03 mm ≤ 0,1 mm	- radial (6 mm from mounting face)	≤ 4 N
Shaft play (on bearing output): ≤ 0,03 mm - axial ≤ 0,1 mm	– axial	≤ 3 N
- radial ≤ 0,03 mm - axial ≤ 0,1 mm	Shaft press fit force, max.	≤ 15 N
– axial ≤ 0,1 mm	Shaft play (on bearing output):	
	– radial	≤ 0,03 mm
Operating temperature range – 30 + 100 °C	– axial	≤ 0,1 mm
	Operating temperature range	– 30 + 100 °C

Specifications								
					output torque			
reduction ratio	weight	length	length with motor		continuous	intermittent		efficiency
	without	without			operation	operation	of rotation	
	motor	motor	1024 A	1224 A			(reversible)	
		L2	L1	L1	M max.	M max.		
	g	mm	mm	mm	mNm	mNm		%
4:1	12	15,1	38,8	39,3	300	450	=	90
16:1	15	19,7	43,4	43,9	300	450	=	80
64:1	18	24,3	48,0	48,5	300	450	=	70
256:1	21	28,9	52,6	53,1	300	450	=	60
1 024:1	24	33,5	57,2	57,7	300	450	=	55



For details on technical information and lifetime performance refer to pages 104-108.

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