

Planetary Gearheads

0,3 Nm

For combination with
DC-Micromotors
Brushless DC-Motors
Stepper Motors

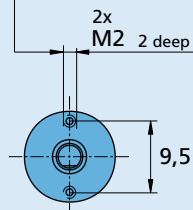
Series 12/4

	12/4	12/4K
Housing material	metal	metal
Geartrain material	metal	metal
Recommended max. input speed for:		
– continuous operation	5 000 min ⁻¹	5 000 min ⁻¹
Backlash, at no-load	≤ 3 °	≤ 3 °
Bearings on output shaft	sintered bearings	ball bearings, preloaded
Shaft load, max.:		
– radial (6 mm from mounting face)	≤ 4 N	≤ 20 N
– axial	≤ 3 N	≤ 5 N
Shaft press fit force, max.	≤ 15 N	≤ 5 N
Shaft play		
– radial (6 mm from mounting face)	≤ 0,05 mm	≤ 0,04 mm
– axial	≤ 0,1 mm	= 0 mm
Operating temperature range	- 30 ... + 100 °C	- 30 ... + 100 °C

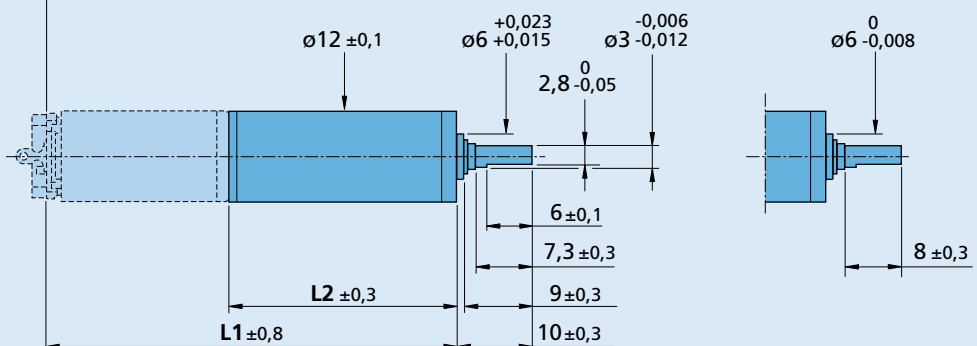
Technical data

	1	2	3	4	5
Number of gear stages					
Continuous torque	mNm 300	300	300	300	300
Intermittent torque	mNm 450	450	450	450	450
Mass without motor, ca.	g 12	15	18	21	24
Efficiency, max.	% 90	80	70	60	55
Direction of rotation, drive to output	=	=	=	=	=
Reduction ratio (exact)	4:1	16:1	64:1	256:1	1 024:1
L2 [mm] = length without motor	15,1	19,7	24,3	28,9	33,5
L1 [mm] = length with motor	1016A...SR 31,0	1016A...SR 35,6	1016A...SR 40,2	1016A...SR 44,8	1016A...SR 49,4
	1024A...SR 39,0	1024A...SR 43,6	1024A...SR 48,2	1024A...SR 52,8	1024A...SR 57,4
	1224A...SR 39,3	1224A...SR 43,9	1224A...SR 48,5	1224A...SR 53,1	1224A...SR 57,7
	1028A...B 43,2	1028A...B 47,8	1028A...B 52,4	1028A...B 57,0	1028A...B 61,6
	1218A...B 33,1	1218A...B 37,7	1218A...B 42,3	1218A...B 46,9	1218A...B 51,5
	1226A...B 41,1	1226A...B 45,7	1226A...B 50,3	1226A...B 54,9	1226A...B 59,5
	AM1020...31 31,0	AM1020...31 35,6	AM1020...31 40,2	AM1020...31 44,8	AM1020...31 49,4
	DM1220...59 32,5	DM1220...59 37,1	DM1220...59 41,7	DM1220...59 46,3	DM1220...59 50,9

Orientation with respect to motor terminals not defined



For more combinations see table.
Example of combination with 1224...SR.



12/4

12/4 K