

Planetary Gearheads

0,7 Nm

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

Series 23/1

	23/1
Housing material	metal
Geartrain material	steel
Recommended max. input speed for:	
– continuous operation	4 000 rpm
Backlash, at no-load	≤ 1 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (10 mm from mounting face)	≤ 170 N
– axial	≤ 150 N
Shaft press fit force, max.	≤ 150 N
Shaft play	
– radial (10 mm from mounting face)	≤ 0,03 mm
– axial	≤ 0,1 mm
Operating temperature range	- 30 ... + 100 °C

Specifications

	1	2	3	4	5
Number of gear stages					
Continuous torque	mNm 200	300	700	700	700
Intermittent torque	mNm 400	600	1 000	1 000	1 000
Weight without motor, ca.	g 60	70	90	100	110
Efficiency, max.	% 88	80	70	60	55
Direction of rotation, drive to output	=	=	=	=	=
Reduction ratio ¹⁾ (rounded)	3,71:1	9,7:1 14:1	43:1 66:1	94:1 112:1 134:1 159:1 190:1 246:1	415:1 592:1 989:1 1 526:1
L2 [mm] = length without motor ²⁾	27,9	34,1	40,3	46,4	52,6
L1 [mm] = length with motor	2224U...SR 48,2	2230U...S 54,4	2232U...SR 60,6	2233U...S 66,7	2237S...CXR 72,9
	2342S...CR 54,0	2057S...B 60,2	2232S...BSL 66,4	2444S...B 72,5	AM2224...-10 78,7
	2232U...SR 56,2	2233U...S 62,4	2237S...CXR 68,6	2057S...B 74,7	
	2233U...S 56,6	2237S...CXR 62,8	2342S...CR 69,0	2057S...B 75,1	
	2237S...CXR 64,9	2057S...B 71,1	2232S...BSL 77,3	2057S...B 83,4	
	2342S...CR 69,9	2057S...B 76,1	2232S...BSL 82,3	2057S...B 88,4	
	2057S...B 84,9	2057S...B 91,1	2232S...BSL 97,3	2057S...B 103,4	
	2232S...BSL 60,3	2232S...BSL 66,5	2232S...BSL 72,7	2232S...BSL 78,8	
	2248S...BSL 75,9	2248S...BSL 82,1	2248S...BSL 88,3	2248S...BSL 94,4	
	2444S...B 71,9	2444S...B 78,1	2444S...B 84,3	2444S...B 90,4	
	AM2224...-10 55,5	AM2224...-10 61,7	AM2224...-10 67,9	AM2224...-10 74,0	

¹⁾ The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

²⁾ L2 - 3,9 mm, in combination with 2224U...SR, 2230U...S, 2232U...SR, 2233U...S and AM2224.

Note: Reduction ratio 3,71:1 with motor types 2224U...SR, 2230U...S, 2232U...SR and 2233U...S shall be ordered as 23/1 3,71:1 - K288.

