

# 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 min <sup>-1</sup>
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

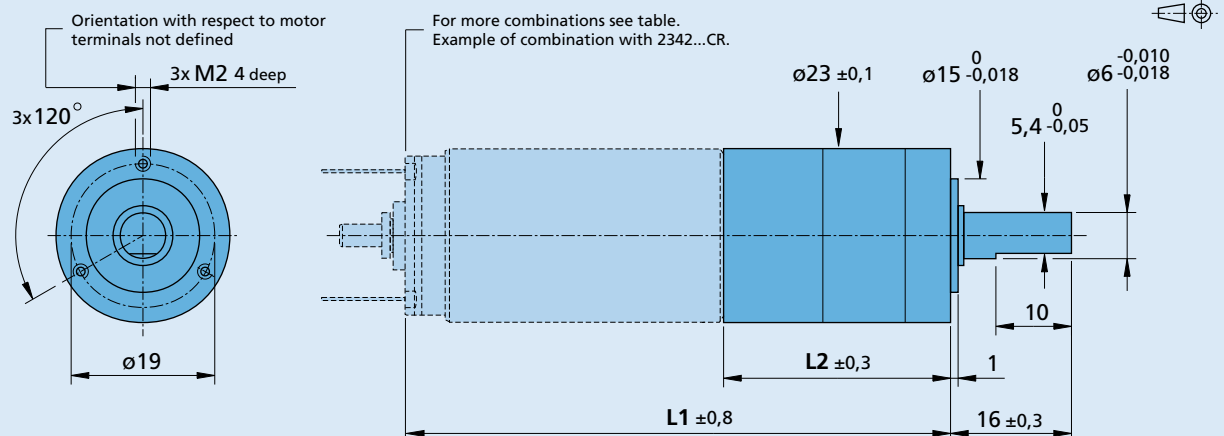
#### Technical data

	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
Mass without motor, ca.	g 60	70	90	100	110
Efficiency, max.	% 88	80	70	60	55
Direction of rotation, drive to output	=	=	=	=	=
Reduction ratio <sup>1)</sup> (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 <sup>2)</sup>	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
	2232U...SR 54,0	2233U...S 60,2	2342S...CR 66,4	2057S...B 72,5	2444S...B 78,7
	2232U...SR 56,2	2233U...S 62,4	2342S...CR 68,6	2057S...B 74,7	2444S...B 80,9
	2233U...S 56,6	2237S...CXR 62,8	2342S...CR 69,0	2057S...B 75,1	2444S...B 81,3
	2237S...CXR 64,9	2342S...CR 71,1	2342S...CR 77,3	2057S...B 83,4	2444S...B 89,6
	2342S...CR 69,9	2057S...B 76,1	2342S...CR 82,3	2057S...B 88,4	2444S...B 94,6
	2057S...B 84,9	2444S...B 91,1	2057S...B 97,3	2444S...B 103,4	AM2224...10 109,6
	2444S...B 71,9	AM2224...10 78,1	AM2224...10 84,3	AM2224...10 90,4	AM2224...10 96,6
	AM2224...10 51,7	AM2224...10 57,9	AM2224...10 64,1	AM2224...10 70,2	AM2224...10 76,4

<sup>1)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

<sup>2)</sup> 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, 2233U...S and AM2224 shall be ordered as 23/1 3,71:1 - K288.



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