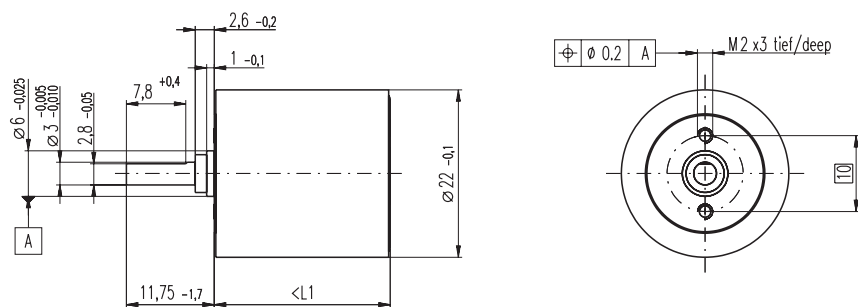


Planetary Gearhead GP 22 B Ø22 mm, 0.1 - 0.3 Nm

Sleeve Bearing



M 1:1

Technical Data

Planetary Gearhead	straight teeth
Housing	steel
Output shaft	stainless steel, hardened
Bearing at output	sleeve bearing
Radial play, 6 mm from flange	max. 0.06 mm
Axial play	0.02 - 0.10 mm
Max. permissible axial load	8 N
Max. permissible force for press fits	100 N
Sense of rotation, drive to output	=
Recommended input speed	< 8000 rpm
Recommended temperature range	-15 ... +100°C
Extended area as option	-35 ... +100°C
Number of stages	1 2 3 4 5
Max. radial load, 6 mm from flange	8 N 12 N 16 N 20 N 20 N

- ☒ Stock program
☐ Standard program
☐ Special program (on request)

Order Number

Gearhead Data

	110355	110356	110357	118653	110358	134772	110359	134775
1 Reduction	4.4 : 1	19 : 1	84 : 1	157 : 1	370 : 1	690 : 1	1621 : 1	3027 : 1
2 Reduction absolute	57/13	3249/169	185193/2197	19683/125	10556001/28561	1121931/1625	601692057/371293	63950067/21125
3 Max. motor shaft diameter	2	2	2	15	2	2	2	2
Order Number	118651	134767	134768		134770	118654	134773	134776
1 Reduction	5.4 : 1	24 : 1	104 : 1		455 : 1	850 : 1	1996 : 1	3728 : 1
2 Reduction absolute	27/5	1539/65	87723/845		5000211/10985	531441/625	285012027/142805	30292137/8125
3 Max. motor shaft diameter	1.5	2	2		2	1.5	2	2
Order Number		118652	134769		134771		134774	118655
1 Reduction		29 : 1	128 : 1		561 : 1		2458 : 1	4592 : 1
2 Reduction absolute		729/25	41553/325		2368521/4225		135005697/54925	14348907/3125
3 Max. motor shaft diameter		1.5	2		2		2	1.5
4 Number of stages	1	2	3	3	4	4	5	5
5 Max. continuous torque	0.10	0.15	0.20	0.20	0.25	0.25	0.30	0.30
6 Intermittently permissible torque at gear output	0.150	0.225	0.300	0.300	0.375	0.375	0.450	0.450
7 Max. efficiency	90	81	73	73	65	65	59	59
8 Weight	39	48	57	57	65	65	73	73
9 Average backlash no load	1.4	1.6	2.0	2.0	2.4	2.4	3.0	3.0
10 Mass inertia	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05
11 Gearhead length L1	15.9	19.5	23.1	23.1	26.7	26.7	30.3	30.3



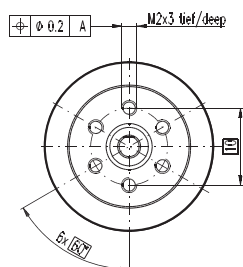
Combination

+ Motor	Page	+ Tacho / Brake	Page	Overall length [mm] = Motor length + gearhead length + (tacho / brake) + assembly parts							
A-max 19	107/108			44.9	48.5	52.1	52.1	55.7	55.7	59.3	59.3
A-max 19, 1.5 W	108	MR	255/256	50.0	53.6	57.2	57.2	60.8	60.8	64.4	64.4
A-max 19, 1.5 W	108	Enc 22	261	59.3	62.9	66.5	66.5	70.1	70.1	73.7	73.7
A-max 19, 1.5 W	108	MEnc 13	270	52.4	56.0	59.6	59.6	63.2	63.2	66.8	66.8
A-max 19, 2.5 W	109/110			47.5	51.1	54.7	54.7	58.3	58.3	61.9	61.9
A-max 19, 2.5 W	110	MR	255/256	51.8	55.4	59.0	59.0	62.6	62.6	66.2	66.2
A-max 19, 2.5 W	110	Enc 22	261	61.9	65.5	69.1	69.1	72.7	72.7	76.3	76.3
A-max 19, 2.5 W	110	MEnc 13	270	55.0	58.6	62.2	62.2	65.8	65.8	69.4	69.4
A-max 22	111-114			47.9	51.5	55.1	55.1	58.7	58.7	62.3	62.3
A-max 22	112/114	MR	255/256	52.9	56.5	60.1	60.1	63.7	63.7	67.3	67.3
A-max 22	112/114	Enc 22	261	62.3	65.9	69.5	69.5	73.1	73.1	76.7	76.7
A-max 22	112/114	MEnc 13	270	55.0	58.6	62.2	62.2	65.8	65.8	69.4	69.4

Option Ball Bearing

Order Number

Technical Data



4.4 : 1	144137	455 : 1	144147	Planetary Gearhead	straight teeth
5.4 : 1	144138	561 : 1	144148	Housing	steel
19 : 1	144139	690 : 1	144149	Output shaft	stainless steel, hardened
24 : 1	144140	850 : 1	144150	Bearing at output	preloaded ball bearings
29 : 1	144141	1621 : 1	144151	Radial play, 6 mm from flange	< 0.08 mm
84 : 1	144142	1996 : 1	144152	Axial play at axial load	< 4 N 0 mm
104 : 1	144143	2458 : 1	144153		> 4 N max. 0.05 mm
128 : 1	144144	3027 : 1	144154	Max. permissible axial load	8 N
157 : 1	144145	3728 : 1	144155	Max. permissible force for press fits	25 N
370 : 1	144146	4592 : 1	144156	Sense of rotation, drive to output	=
				Recommended input speed	< 8000 rpm
				Recommended temperature range	-15 ... +100°C
				Extended area as option	-35 ... +100°C
				Number of stages	1 2 3 4 5
				Max. radial load, 6 mm from flange	10 N 15 N 20 N 20 N 20 N
				Gearhead values according to sleeve bearing version	