



RPS040 Planetary Gear

Dimensions with gear stages	a	Weight
1-stage	45,5 mm	0,3 kg
2-stage	67 mm	0,4 kg

RPS040 Performance Data

i tot.	Stages	Nominal drive speed n_1 [rpm]	Max. drive speed n_1 max. [rpm]	Nominal torque T_{2N}^{*1} [Nm]	Max. acceleration torque T_{2B}^{*2} [Nm]	Emergency stop torque T_{2EMG}^{*3} [Nm]	Circumferential backlash jt [arcmin]	Efficiency level η [%]	Torsional stiffness c_t [Nm/arcmin]	Mass moment of inertia J_1^{*4} [kgcm ²]
4	1	4500	8000	16	25	36	<= 15	> 97	1	0,022
5	1	4500	8000	14	23	34	<= 15	> 97	1	0,019
7	1	4500	8000	14	23	34	<= 15	> 97	1	0,018
8	1	4500	8000	14	23	34	<= 15	> 97	1	0,017
16	2	4500	8000	16	25	36	<= 19	> 94	1,1	0,022
20	2	4500	8000	16	25	36	<= 19	> 94	1,1	0,019
25	2	4500	8000	14	23	34	<= 19	> 94	1,1	0,019
28	2	4500	8000	16	25	36	<= 19	> 94	1,1	0,017
32	2	4500	8000	16	25	36	<= 19	> 94	1,1	0,017
35	2	4500	8000	14	23	34	<= 19	> 94	1,1	0,017
40	2	4500	8000	14	23	34	<= 19	> 94	1,1	0,016
49	2	4500	8000	14	23	34	<= 19	> 94	1,1	0,018
56	2	4500	8000	14	23	34	<= 19	> 94	1,1	0,017
64	2	4500	8000	14	23	34	<= 19	> 94	1,1	0,016

*1 Service life 20,000 h, $n_2 = 100$ rpm

*2 (max. 1000 cycles an hour. T_{2B} share <5% of the total running time)

*3 (max. 1000 cycles during the lifetime of the gears)

*4 relative to the drive shaft

Fluid grease lubrication (lifetime-lubricated)

Any installation position

Sound pressure level at a distance of 1 m, measured at a drive speed of 3000 rpm < 65 db(A)

Max. axial force relative to the centre of the output shaft: 200 N, $n_2 = 100$ rpm

Max. radial force relative to the centre of the output shaft: 200 N, $n_2 = 100$ rpm

Temperature range: -25 °C to +90 °C



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