



RPL070 Planetary Gear

Dimensions with gear stages	a	Weight
1-stage	70 mm	1,8 kg
2-stage	91.5 mm	2,3 kg

RPL070 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}^{-2} [Nm]	Circumferential backlash jt [arcmin]	Efficiency level η [%]	Torsional stiffness c_t [Nm/arcmin]	Mass moment of inertia J_1^{-4} [kg cm ²]
3	1	3700	6000	23	46	69	<= 8	> 97	3,30	0,029
5	1	3700	6000	24	48	72	<= 8	> 97	3,30	0,029
7	1	3700	6000	23	46	69	<= 8	> 97	3,30	0,029
10	1	3700	6000	23	46	69	<= 8	> 97	2,80	0,029
15	2	3700	6000	24	48	72	<= 12	> 95	3,30	0,026
25	2	3700	6000	24	48	72	<= 12	> 95	3,30	0,026
30	2	3700	6000	23	46	69	<= 12	> 95	3,30	0,026
35	2	3700	6000	24	48	72	<= 12	> 95	3,30	0,026
50	2	3700	6000	24	48	72	<= 12	> 95	3,30	0,026
70	2	3700	6000	23	46	69	<= 12	> 95	3,30	0,026
100	2	3700	6000	23	46	69	<= 12	> 95	2,80	0,026

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

*2 (max. 1000 cycles an hour. T2B 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 < 70 db(A)

Max. axial force relative to the centre of the output shaft: 1550 N, $n_2 = 100$ rpm

Max. radial force relative to the centre of the output shaft: 1450 N, $n_2 = 100$ rpm

Temperature range: -25 °C to +90 °C



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