



## RPL090 Planetary Gear

Dimensions with gear stages	a	Weight
1-stage	84 mm	3,7 kg
2-stage	110 mm	4,6 kg

### RPL090 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 $\eta$ [%]	Torsional stiffness $c_t$ [Nm/arcmin]	Mass moment of inertia $J_1^{*4}$ [kg cm <sup>2</sup> ]
3	1	3400	6000	60	120	180	$\leq 8$	$> 97$	9,00	1,73
5	1	3400	6000	50	100	150	$\leq 8$	$> 97$	9,00	1,73
7	1	3400	6000	50	100	150	$\leq 8$	$> 97$	9,00	1,73
10	1	3400	6000	37	74	111	$\leq 8$	$> 97$	7,50	1,73
15	2	3400	6000	60	120	180	$\leq 11$	$> 95$	9,00	1,48
25	2	3400	6000	50	100	150	$\leq 11$	$> 95$	9,00	1,48
30	2	3400	6000	60	120	180	$\leq 11$	$> 95$	9,00	1,48
35	2	3400	6000	50	100	150	$\leq 11$	$> 95$	9,00	1,48
50	2	3400	6000	50	100	150	$\leq 11$	$> 95$	9,00	1,48
70	2	3400	6000	50	100	150	$\leq 11$	$> 95$	9,00	1,48
100	2	3400	6000	37	74	111	$\leq 11$	$> 95$	7,50	1,48

\*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 < 72 db(A)

Max. axial force relative to the centre of the output shaft: 1900 N,  $n_2 = 100$  rpm

Max. radial force relative to the centre of the output shaft: 2400 N,  $n_2 = 100$  rpm

Temperature range: -25 °C to +90 °C



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