

PGR 4000 Technical Details

Wheel load		4500			[kg]
Stages		1	2	3	
Transmission ratio ⁷	i	4.82	23.88 32.04	120.22 198.45 297.68	
Efficiency	η	96	94	93	[%]
Approx. mass	m	38	41	44	[kg]
Rated output torque	T_{2N}	1600			[Nm]
Output acceleration torque	T_{2A}	3200			[Nm]
Peak output torque ¹	T_{2S}	4000			[Nm]
Permissible average drive speed ²	n_{1N}	3000			[rpm]
Maximum speed ³	$n_{1\max}$	6000			[rpm]
Axial force ⁴	$F_{2A\max}$	9000			[N]
Radial force ⁴	$F_{2R\max}$	45000			[N]
Operational lifetime ^{5, 6}	Lh	20000			[h]
Oper. noise emission at $n_1 = 3000$ rpm	Lp	< 68			[dB(A)]
Direction of rotation – input/output		counter-rotating			
Lubrication		permanent			
Mounting position		horizontal			
Ambient temperature	T	-20 to +50			[°C]
Max. permissible case temperature	T	90			[°C]
Protection class		up to IP67 ⁸			
Surface finish		EDP-coated			
Casing colour ⁷		similar to RAL 9005			

1 <10 Sec

2 At 20°C ambient temperature

3 Briefly

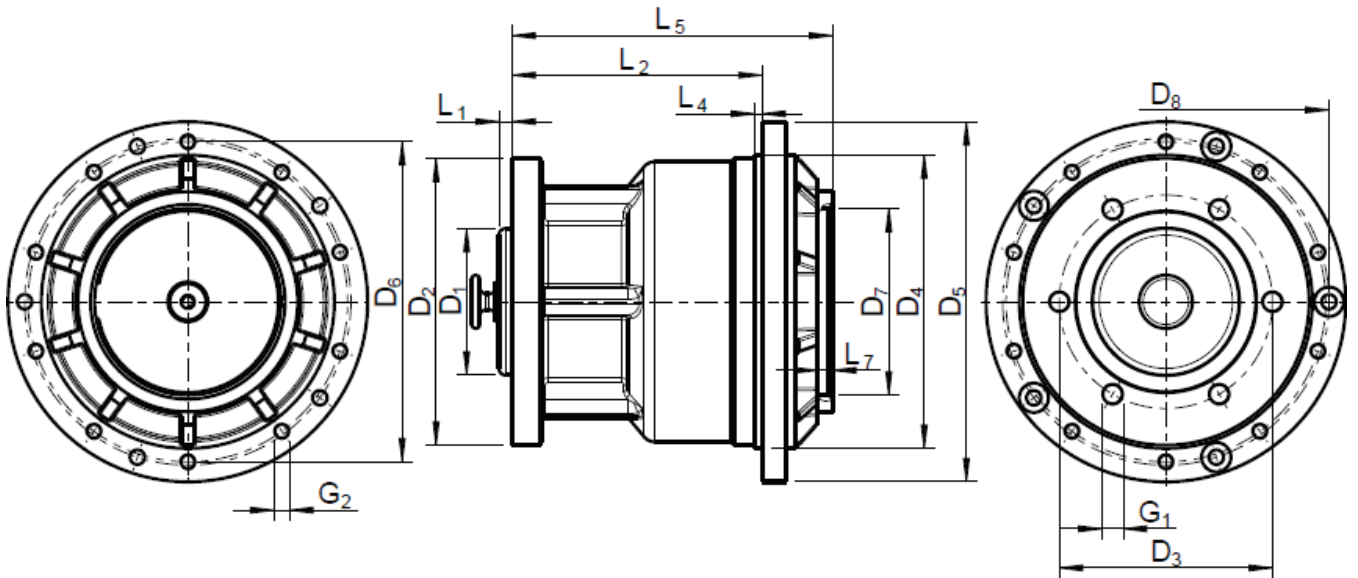
4 Referenced to the rim flange area at $n_2 = 100$ rpm

5 Referenced to $n_2 = 100$ rpm, KA = 1

6 Application dependent

7 Others on request

8 Motor dependent



Stages		1	2	3	
Dimensions					
Overall length – without motor	L5	241	280		[mm]
Housing length	L2	188			[mm]
Transmission output shaft dimensions					
Rim centring diameter	D1	110			[mm]
Rim centring length	L1	10			[mm]
Output flange – outer diameter	D2	215			[mm]
Rim pitch circle diameter	D3	160			[mm]
Rim screw thread	G1	M16x1.5 (6x)			
Transmission input shaft dimensions ⁸					
Transmission centring diameter	D4	220			[mm]
Transmission centring length	L4	5.5			[mm]
Outer diameter	D5	270			[mm]
Motor Outer diameter		240			
Pitch circle diameter	D6	245	180		[mm]
Screw thread	G2	M12 (10x)			
Motor centring diameter	D7	140	100		[mm]
Motor centring length	L7	10			[mm]
Motor flange precision		DIN 42955-N			



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