



GEARBOX SPECIFICATION				
GP42-xx-xx-SR	S1-4	S1-5	S1-7	S1-9
Reduction Ratio	3.93 (114/29)	5.25 (21/4)	7.07 (99/14)	8.73 (96/11)
No. of Stages	1			
Rated Output Torque	Nm 6.5	6.9	7.3	7.0
Max. Output Torque	Nm 13.0	13.8	14.6	14.0
Rated Input Speed	rpm 3000			
Max. Input Speed	rpm 8236	11943	17061	18000
Backlash	° ≤ 1			
Efficiency	% 90			
Lifetime	h 10000			
Gearbox Inertia	kg m ² 0.81×10^{-6}	0.48×10^{-6}	0.28×10^{-6}	0.22×10^{-6}
Ambient Temperature	°C -15 ... 90			
Protection Class	IP54			
Fr 100 rpm Output Speed (shaft middle)	N 305			
Fa 100 rpm Output Speed	N 890			

04

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715		
				Date	Name
04	CR-Nr. 2026-0015	Schneid_A	16.04.2026	Drawn	26.01.2023 Schneid_A
03	Backlash updated	Kaiming_C	24.05.2023	Reviewed	17.05.2023 Kaiming_C
02	Force updated	Kaiming_C	23.05.2023	Released	17.05.2023 Kaiming_C
01	changed values, dim.	Kaiming_C	17.05.2023		
REV	Rev. Text	Name	Date		

Nanotec PLUG & DRIVE			20001857	Scale: 1 : 1
State: Released		Rev: 04	CONFIDENTIAL	A4 Page 1