



01

03

GEARBOX SPECIFICATION

		S1-4	S1-5	S1-7	S1-9
GP42-xx-xx-SR					
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 x10 ⁻⁶	0.48 x10 ⁻⁶	0.28 x10 ⁻⁶	0.22 x10 ⁻⁶
Ambient Temperature	°C	-15 ... 90			
Protection Class		IP54			
Fr 100 rpm Output Speed	N	305			
Fa 100 rpm Output Speed (shaft middle)	N	890			

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715	
REV	Rev. Text	Name	Date	Date	Name		
03	Backlash updated	Kaiming_C	24.05.2023	Drawn	26.01.2023	Schneid_A	
02	Force updated	Kaiming_C	23.05.2023	Reviewed	17.05.2023	Kaiming_C	
01	changed values, dim.	Kaiming_C	17.05.2023	Released	17.05.2023	Kaiming_C	
				Nanotec [®]			
				PLUG & DRIVE			

GP42-S1-x-SR			
		20001857	Scale: 1 : 1
		State: Released	A4 Page 1
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