



**Technical Specifications:**  
 planetary gear: straight-toothed  
 lifetime: 20.000h  
 output shaft bearing: taper roller bearing  
 - max. axial load: 6400N by  $n_2=100$  1/min /Fr=0 /Lh=20.000h<sup>Ⓐ</sup>  
 - max. radial load: 4300N by  $n_2=100$  1/min /Fa=0 /Lh=20.000h<sup>Ⓒ</sup>  
 - max. axial load: 5700N by  $n_2=100$  1/min /Fr=0 /Lh=30.000h<sup>Ⓐ</sup>  
 - max. radial load: 3900N by  $n_2=100$  1/min /Fa=0 /Lh=30.000h<sup>Ⓒ</sup>  
 - ref. on shaft center /T=30°C  
 backlash: 1.stage<=3 arcmin / 2.stage<=5 arcmin  
 - ref. on output shaft  
 max. input speed:  $n_1=10000$  1/min<sup>(1)</sup>  
 recommended input speed:  $n_1 \leq 4500$  1/min<sup>(1)</sup> Ⓐ  
 lubrication: Life lubrication  
 operating temperature: -25°C...+100°C  
 efficiency: by rated load (ratio dependently) Ⓑ  
 - ca. 98% 1.stage, ca.95% 2.stage  
 nominal output torque: by  $n_2=100$  1/min  
 sealing:  
 - input: radial shaft seal ring  
 - output: radial shaft seal ring  
 motor mounting: M2 (stocked driving pinion)  
 - torque of clamping screw: 9.5Nm  
 method of working: S1  
 operation ratio:  $c_B=1$   
 protective system: IP 65  
 max.motor weight static: 15kg

**Material:**  
 output shaft: GGG 60  
 housing: steel - black  
 input flange: Aluminium

	1.stage		2.stage	
L1	150.5		179	
L2	69		97.6	
	i	Mn	i	Mn
	3	75	12	120
	4	100	15	110
	5	110	16	120
	8	62	20	110
	10	45	25	110
			32	120
			40	110
			64	62
			100	45

Mn = nominal output torque at output shaft [Nm]  
 Ⓐ emergency stop torque: 2 times

<sup>(1)</sup> Operating temperature may not be exceeded! Ⓐ

Modification reserve!

Consider motor fitting instructions!

				scale: 1:2		DIN A3	ISO				
				Data sheet PLS 90 standard flange							
h			date					name			
g			Auth.					30.07.01	Ille		
f	text added	19.09.05	S1/Ci					Aud.	30.07.01	Cihlar	
e	value adjustment	19.09.05	S1/Ci					Rel.	30.07.01	Cihlar	
d	was $\phi 50$	25.08.05	IB/BB								
c	text added	28.04.05	S1/DH								
b	text added	08.07.04	Ci								
a	text added	11.12.03	BB								
stat.	change	date	nam.	Neugart GmbH Kettenstrasse 16 D - 77971 Kippenheim		Draw.-No.: MB - 912 Part.-No.:					
		date	01.03.99	name	Cihlar	Blatt					