



**Technical Specifications:**

planetary gear box: straight-toothed  
lifetime: 30.000h

output shaft bearing: grooved ball bearing

- max. axial load: 3000N by  $F_r=0$  /Lh=20.000h
- max. radial load: 1400N by  $F_a=0$  /Lh=20.000h
- max. axial load: 3000N by  $F_r=0$  /Lh=30.000h
- max. radial load: 1200N by  $F_a=0$  /Lh=30.000h
- referred to the face of the flange output shaft
- $T=30^\circ\text{C}$  /  $n_2=100$  1/min

backlash: 1.stage<=9 arcmin / 2.stage<=14 arcmin  
- ref. on output shaft

max. input speed:  $n_1=7000$  1/min<sup>(1)</sup>

Lubrication: life grease lubrication

Operating temperature:  $-25^\circ\text{C} \dots +90^\circ\text{C}$

efficiency: by nominal load (ratio dependently)

- appr. 96% 1.stage, appr. 94% 2.stage

nominal output torque: at  $n_2=100$  1/min

sealing: grooved ball bearing 2RS

motor mounting: M2 (pivoted driving pinion)

- torque of clamping screw: 9,5Nm

operation mode: S1

operation ratio:  $c_B=1$

protection category: IP 54

max. motor weight static: 9kg

**Material:**

housing: steel - black  
input flange: aluminium - untreated  
output shaft: steel

flange according EN ISO 9409  
with additional threads

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

$T_{2N}$  = nominal output torque  
at flange output shaft [Nm]  
emergency stop torque: 2 times  $T_{2N}$

max. middle <sup>(1)</sup> input speed at normal conditions and S1 duty					
i	$n_1$ at 50% $T_{2N}$	$n_1$ at 100% $T_{2N}$	i	$n_1$ at 50% $T_{2N}$	$n_1$ at 100% $T_{2N}$
3	2750	1900	9	4000	2500
4	2800	1800	12	4000	3200
5	3400	2250	15	4000	4000
8	4000	4000	16	4000	3800
			20	4000	4000
			25	4000	4000
			32	4000	4000
			40	4000	4000
			64	4000	4000

	1.stage		2.stage	
L1	99		116.5	
L2	65.3		83	
	i	$T_{2N}$ <sup>(a)</sup>	i	$T_{2N}$
	3	85	9	130
	4	115	12	120
	5	110	15	110
	8	50	16	120
			20	120
			25	110
			32	120
			40	110
			64	50

Modification reserved!  
Consider motor mounting instructions!

				DIN A3		ISO					
				data sheet PLFE 90 standard flange				Date		name	
h		Auth.						06.07.06		Ille	
g		Aud.						06.07.06		Bühler	
f		Ret.						06.07.06		Huber	
e		d		c		b		a			
stat		change		Date		nam		date			
Neugart GmbH Keltenstrasse 16 D - 77971 Kippenheim				Draw-No.:		MB - 1111		Blatt			
				Part.-No.:				Bl.			
				date		14.07.04		name			
								Schaberger			