



**Technical Specifications:**

planetary gear: straight-toothed  
 lifetime: 30.000h  
 output shaft bearing: grooved ball bearing  
 - max. axial load: 3300N by Fr=0 /Lh=20.000h  
 - max. radial load: 2400N by Fa=0 /Lh=20.000h  
 - max. axial load: 3300N by Fr=0 /Lh=30.000h  
 - max. radial load: 2100N by Fa=0 /Lh=30.000h  
 - related to the face of the flange output shaft  
 - T=30 °C / n2=100 1/min  
 backlash: 1.stage<=8 arcmin / 2.stage<=12 arcmin  
 - ref. on output shaft  
 max. input speed: n1=6500 1/min<sup>(1)</sup>  
 lubrication: life grease lubrication  
 Operating temperature: -25°C...+90 °C  
 efficiency: by rated load (ratio dependently)  
 - ca. 96% 1.stage, ca.94% 2.stage  
 nominal output torque: by n2=100 1/min  
 sealing: bearing 2RS  
 motor mounting: M2 (stocked driving pinion)  
 - torque of clamping screw: 16.5Nm  
 method of working: S1  
 operation ratio: cB=1  
 protective system: IP 54  
 max.motor weight static: 16kg

**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<sub>2N</sub> = nominal output torque  
 at flange output shaft [Nm]  
 emergency stop torque: 2 times T<sub>2N</sub>

Modification reserve!  
 Consider motor fitting instructions!

max. middle <sup>(1)</sup> input speed at normal conditions and S1 duty					
i	n <sub>1</sub> at 50% T <sub>2N</sub>	n <sub>1</sub> at 100% T <sub>2N</sub>	i	n <sub>1</sub> at 50% T <sub>2N</sub>	n <sub>1</sub> at 100% T <sub>2N</sub>
3	2450	1700	9	3200	2000
4	2550	1700	12	3300	2000
5	2650	1700	15	3500	2650
8	3500	3250	16	3500	2450
			20	3500	2900
			25	3500	3500
			32	3500	3500
			40	3500	3500
			64	3500	3500

	1.stage		2.stage	
L1	125		152	
L2	77.5		104.5	
	i	T <sub>2N</sub> ②	i	T <sub>2N</sub>
	3	115	9	210 ③
	4	155	12	260
	5	195	15	230
	8	120	16	260
			20	260
			25	230
			32	260
			40	230
			64	120

		scale: 7:10		DIN A3	ISO
		data sheet PLFE 110 standard flange			
h		date	name		Draw-No.: MB - 1112 Part-No.:
g		Auth.	15.07.04	Ille	
f		Aud.	15.07.04	Bühler	
e		Rel.	15.09.04	Huber	
d					
c					
b	added	06.07.06	Si/JS		Blatt
a	value adjustment	15.03.06	Si/Ci		
stat.	change	date	nam.		Bl.

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