



	1.stage	2.stage	3.stage		
L1	195	212.5	230		
L2	71	88.5	106		
i=	Mn	i=	Mn	i=	Mn
3	40	9 <sup>(2)</sup>	130	60	110
4	50	12 <sup>(2)</sup>	120	80	120
5	50	15	110	100	120
8	50	16	120	120	110
		20	120	160	120
		25	110	200	110
		32	120	256	120
		40	110	320	110
		64	50	512	50

Mn = nominal output torque at output shaft with tumscent load [Nm]  
<sup>(2)</sup> Lifetime deviating 10.000h at Mn

**Technical Specifications**

planetary gear: straight-toothed  
 Lifetime: 20.000h  
 output shaft bearing: grooved ball bearing  
 - max. axial load: 2800N by n2=100 1/min /Fr=0 /Lh=10.000h  
 - max. radial load: 2500N by n2=100 1/min /Fa=0 /Lh=10.000h  
 - max. axial load: 2000N by n2=100 1/min /Fr=0 /Lh=30.000h  
 - max. radial load: 1700N by n2=100 1/min /Fa=0 /Lh=30.000h  
 - ref. on shaft center/T=30°  
 backlash: 1.stage<=15 arcmin, 2.stage<=19 arcmin @  
 - 3.stage<=21 arcmin ref. on output shaft  
 max. input speed: n1=7000 1/min<sup>(1)</sup>  
 recommended input speed: n1<=3000 1/min<sup>(1)</sup>  
 Lubrication: Life grease Lubrication  
 operating temperature: -25°C...+90°C  
 efficiency: by rated load (ratio dependently)  
 - ca. 94% 1.stage, ca. 92% 2.stage  
 - ca. 88% 3.stage  
 nominal output torque: by n2 = 100 1/min  
 sealing: bearing 2RS  
 motor mounting: M2(stocked driving pinion)  
 - torque of clamping screw: 9,5Nm  
 method of working: S1  
 operation ratio: cB=1  
 protective system: IP 54  
 max. motor weight static: 9,0kg

**Material:**  
 input flange: Aluminium - untreated  
 housing: Steel - black

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

Modification reserve!  
 Consider motor fitting instructions!

		date		Name		scale: 1:1	DIN A3	ISO
		h				data sheet WPLE 80/90 standard flange		
g		Auth.	26.10.04	Ille				
f		Aud.	26.10.04	Bühler				
e		Rel.	26.10.04	Cihlar				
d								
c		Neugart GmbH Keltenstrasse 16 D - 77971 Kippenheim				Draw-No.: MB - 982	Blatt	
b						Plan-No.:	Bl.	
a	value adjustment	26.09.05	IB/BB			date: 11.04.01	name: Bühler	
stat	change	date	nam.	(Urspr.)				