


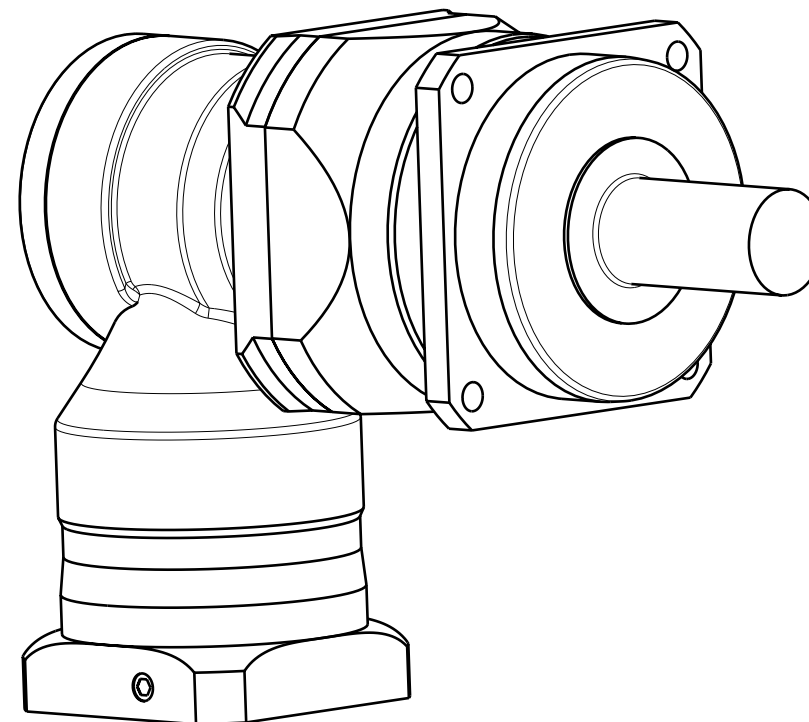
(1)	measurements depend on the motor	
(2)	standard-motor shaft \varnothing	dimensional drawing no.
	11/12.7/14/15.87/16 19/22/24	MB-1682
	28/32/35	MB-1683

material:
input flange: aluminium - untreated
planetary gear: steel/cast - black
angle housing: aluminium - black

modification reserved!
consider motor fitting instructions!

		general tolerance 2768-cl	scale: 2:5	DIN A3	ISO
			data sheet WPLN 142, 2-stage		
h		date	name		Draw.-No.: MB - 1682 Part.-No.: Ident.-No.:
g		Auth. 04.05.09	Ille		
f		Aud. 04.05.09	Bühler		
e		Rel. 04.05.09	Huber		
d					
c		Neugart GmbH		Draw.-No.: MB - 1682	sheet
b		Keltenstrasse 16		Part.-No.:	1
a		D - 77971 Kippenheim		Ident.-No.:	2 sh.
stat.	change	date	nam.	date:	name:


technical data		
angular gearbox - toothing		hypoid toothed
planetary gearbox - toothing		straight toothed
life time	h	20.000
life time at $T_{2N} \times 0.88$	h	30.000
in-/output shaft bearing		tapered roller bearing
sealing		radial sealing
degree of protection		IP 65
lubrication		life lubrication
operating temperature	°C	-25 / +90
motor mounting		M2
operating mode		S1
operating factor		cB=1
max. perm. motor weight	kg	50
reference speed for calculation of bearing life time (n_2)	min ⁻¹	100
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/20.000h	N	15000
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fa=0/20.000h	N	12500
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/30.000h	N	13200
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fa=0/30.000h	N	11400
max. perm. radial load relating to middle of the shaft	N	18000
mounting position		any
motor flange precision		DIN 42955-R
shaft diameter tolerance		j6/k6
min. motor shaft length	mm	25
tightening torque of the clamping screw	Nm	16,5



ratios technical data		2-stage							
		16	20	25	32	40	64	100	
ratio		16	20	25	32	40	64	100	
output torque T_{2N}	Nm	640	800	700	360	450	450	305	
max. output torque T_{2max} for 30.000 revolutions at the output shaft	Nm	1024	1280	1120	576	720	720	488	
emergency stop 1000 times allowed	Nm	1280	1600	1400	720	900	900	610	
max. backlash relating to output shaft	arcmin	< 7							
efficiency at T_{2N} reference temperature 70°C	%	95	95	94	91	91	88	80	
mechanical boundary speed (n_1) allowed operating temperature must be kept	min ⁻¹	9500							
max. middle input speed (n_1): at 50% T_{2N} and S1 allowed operating temperature must be kept	min ⁻¹	1700	1750	2000	2450	2600	2900	3200	
max. middle input speed (n_1): at 100% T_{2N} and S1 allowed operating temperature must be kept	min ⁻¹	1200	1200	1500	2100	2150	2550	3000	
inertia rel. to input shaft and motor shaft diameter d=24	kgcm ²	6.082	6.016	5,5	5.028	5.012	5.004	4.892	
idle running torque at $n_1=3000$ und 20°C gear box temperature	Nm	2,34	2,28	2,12	1,94	1,9	1,86	1,8	
breakaway torque at $n_1=0$ und 20°C gear box temperature	Nm								
weight with standard flange	kg	21,5							
torsional stiffness	Nm/arcmin	58							
running noise at $n_1=3000$ without load at a distance of 1m	dB(A)	70							

thermal length compensation with respect
to the A end shield of the motor

modification reserved!

	
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