


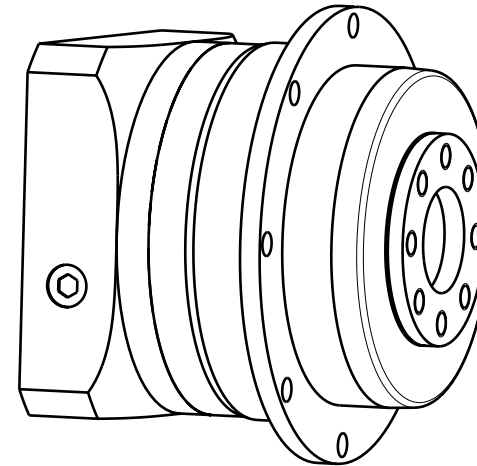
(1) measurements depend on the motor	dimensional drawing no.
(2) standard-motor shaft \varnothing	1-stage
8/9/9,525/10/11/12/14	MB-1797
16/19	MB-1798
(2) standard-motor shaft \varnothing	2-stage
8/9/9,525/10/11/12/14	MB-1799
16/19	MB-1800

material:
input flange: aluminium - untreated
housing: steel - black

modification reserved!
consider motor fitting instructions!

		general tolerance 2768-cL	scale: 1:1	DIN A3	ISO
			data sheet PLFN 64 1.stage		
h	date	name			
g	Auth. 17.12.09	Ille			
f	Aud. 17.12.09	Huber			
e	Rel. 17.12.09	Bühler	Draw.-No.: MB - 1797 Part.-No.: Ident.-No.:		
d					
c	Neugart GmbH		1		
b	Keltenstrasse 16		2 sh.		
a	D - 77971 Kippenheim				
stat.	change	date	nam.	date: 21.10.09	name: Bühler

technical data		
planetary gearbox - toothing		straight toothed
life time	h	20.000
life time at $T_{2N} \times 0.88$	h	30.000
output shaft bearing		angular roller ball bearing
sealing		radial sealring
degree of protection		IP 65
lubrication		Life lubrication
operating temperature	°C	-25 / +90
motor mounting		M2 (supported input pinion)
operating mode		S1
operating factor		cB=1
max. perm. motor weight	kg	10
reference speed for calculation of bearing life time (n_p)	min ⁻¹	100
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/20.000h	N	4300
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fa=0/20.000h	N	2400
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/30.000h	N	3800
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fa=0/30.000h	N	2100
max. perm. radial load relating to middle of the shaft	N	4700
mounting position		any
motor flange precision		DIN 42955-R
shaft diameter tolerance		j6/k6
min. motor shaft length	mm	16
tightening torque of the clamping screw	Nm	4.5



ratios technical data		1-stage			
		4	5	8	10
ratio		4	5	8	10
output torque T_{2N}	Nm	60	65	40	27
max. output torque T_{2max} for 30.000 revolutions at the output shaft	Nm	96	104	64	43
emergency stop 1000 times allowed	Nm	120	130	80	54
max. backlash relating to output shaft	arcmin	< 3			
efficiency at T_{2N} reference temperature 70°C	%	98	98	97	95
mechanical boundary speed (n_p) allowed operating temperature must be kept	min ⁻¹	14.000			
max. middle input speed (n_i): at 50% T_{2N} and S1 allowed operating temperature must be kept	min ⁻¹	2450	2800	4100	4850
max. middle input speed (n_i): at 100% T_{2N} and S1 allowed operating temperature must be kept	min ⁻¹	1950	2150	3500	4400
inertia rel. to input shaft and motor shaft diameter d=14	kgcm ²	0.290	0.260	0.220	0.210
idle running torque at $n_i=3000$ und 20°C gear box temperature	Nm	0,5	0,44	0,4	0,38
breakaway torque at $n_i=0$ und 20°C gear box temperature	Nm	0,15	0,10	0,10	0,10
weight with standard flange	kg	1,6			
torsional stiffness	Nm/arcmin	16			
running noise at $n_i=3000$ without load at a distance of 1m	dB(A)	60	58	58	58

modification reserved!



data sheet PLFN 64
1.stage

MB-1797

sheet 2/2

17.12.2009

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