
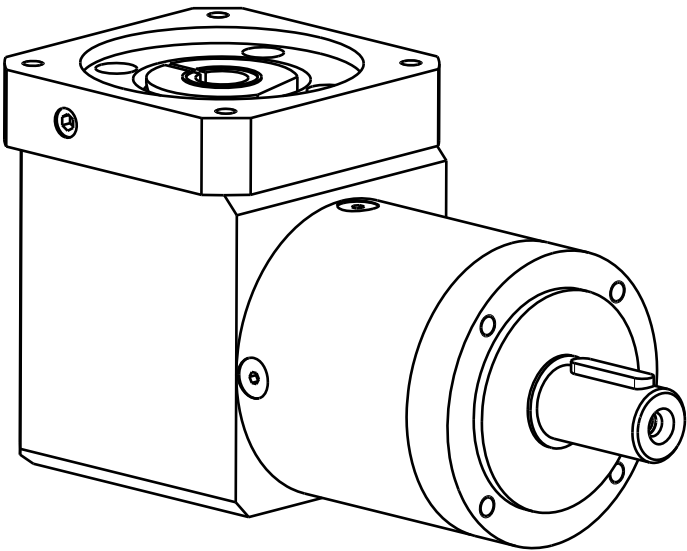


Materials:  
 Input flange: aluminium - untreated  
 Housing: steel - black  
 Output flange: aluminium - untreated

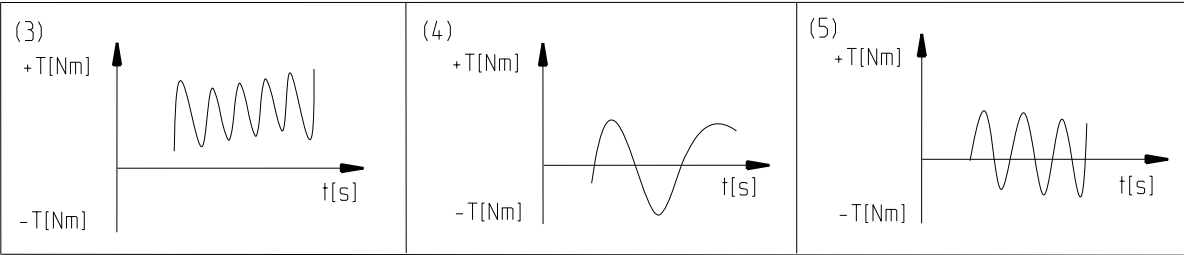
Consider motor fitting instruction!  
 Consider operating manual!  
 Modification reserved!

	Scale: 1:2	DIN A3	ISO
	Revision status: D from: 24.04.2012		
	Changed revision status: C from: 01.03.2012		
General tolerance DIN ISO 2768-cl	Data sheet WPLE 80, 2-stage universal flange + adapter plate		
Neugart GmbH Keltenstr. 16 D-77971 Kippenheim	MB-3000 14_30_75_100_B5_M6		Sheet 1/2

Technical data		
Angular gearbox, gearing type: Planetary gear, gearing type:		Straight toothed
Life time (L10h)	h	30.000
Output shaft bearings		Deep groove ball bearing
Seal		Deep groove ball bearing 2RS
Protection class		IP 54
Lubrication		Grease lubrication
Permissible operating temperature	°C	-25 / +90
Motor attachment		M2
Operating mode		S1
Operating factor		cB=1
Max. permitted motor weight, static	kg	9
Reference speed (n2)	rpm	100
Permitted axial load for output bearing relating to middle of shaft after L10h/Fr=0/20000 h	N	1000
Permitted radial load for output bearing relating to middle of shaft after L10h/Fa=0/20000 h	N	750
Permitted axial load for output bearing relating to middle of shaft after L10h/Fr=0/30000 h	N	900
Permitted radial load for output bearing relating to middle of shaft after L10h/Fa=0/30000 h	N	650
Max. permitted radial load relating to middle of shaft and T2=0 Nm	N	2150
Installation position		any
Necessary motor flange precision		DIN 42955-N
Necessary motor shaft tolerance		j6; k6
Min. usable motor shaft length	mm	16
Torque of the clamp screw	Nm	9,5



Ratio-dependent data										
Ratio		9	12	15	16	20	25	32	40	64
Permanent output torque T2N no oscillating torque (3)	Nm	130 (b)	120 (b)	110	120	120	110	120	110	50
Permanent output torque T2N oscillating torque with slow incline (4)	Nm	37	37	37	37	37	37	37	37	37
Permanent output torque T2N oscillating torque with fast incline (5)	Nm	21	21	21	21	21	21	21	21	21
Max. output torque T2max for 30000 rotations at the output shaft no oscillating torque (3)	Nm	208	192	176	192	192	176	192	176	80
Emergency off torque permitted 1000 times	Nm	260	240	220	240	240	220	240	220	100
Max. torsional backlash relating to the output shaft	arcmin	< 18	< 18	< 18	< 18	< 18	< 18	< 18	< 18	< 18
Degree of efficiency at T2N, reference temperature 70 °C and n1=1000 rpm	%	95	94	94	93	93	92	92	90	80
Mechanical limit speed (n1) Operational temperature may not be exceeded!	rpm	7000	7000	7000	7000	7000	7000	7000	7000	7000
Max. average input speed (n1): at 50% T2N and S1 (a) Operational temperature may not be exceeded!	rpm	3250	3800	4000	4000	4000	4000	4000	4000	4000
Max. average input speed (n1): at 100% T2N and S1 (a) Operational temperature may not be exceeded!	rpm	2100	2650	3150	3100	3550	4000	4000	4000	4000
Mass inertia relating to the drive shaft and motor shaft diameter d=14 mm	kgcm²	1,159	1,139	1,129	0,919	0,859	0,859	0,809	0,809	0,809
Idle torque at n1=3000 rpm and 20 °C gear temperature	Nm	0,55	0,55	0,55	0,6	0,5	0,5	0,45	0,45	0,45
Breakaway torque at n1=0 and 20 °C gear temperature	Nm									
Weight with standard flange	kg	5	5	5	5	5	5	5	5	5
Torsional rigidity	Nm/arcmin	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Operating noise at n1=3000 rpm without load at distance of 1 m	dB(A)	73	73	73	73	73	73	73	73	73



(a) Relating to the ambient temperature of 20 °C.  
At higher temperatures, please reduce the rotational speed.

(b) Different Lifetime 10.000 h at T2N

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Data sheet WPLE 80, 2-stage  
universal flange + adapter plate

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