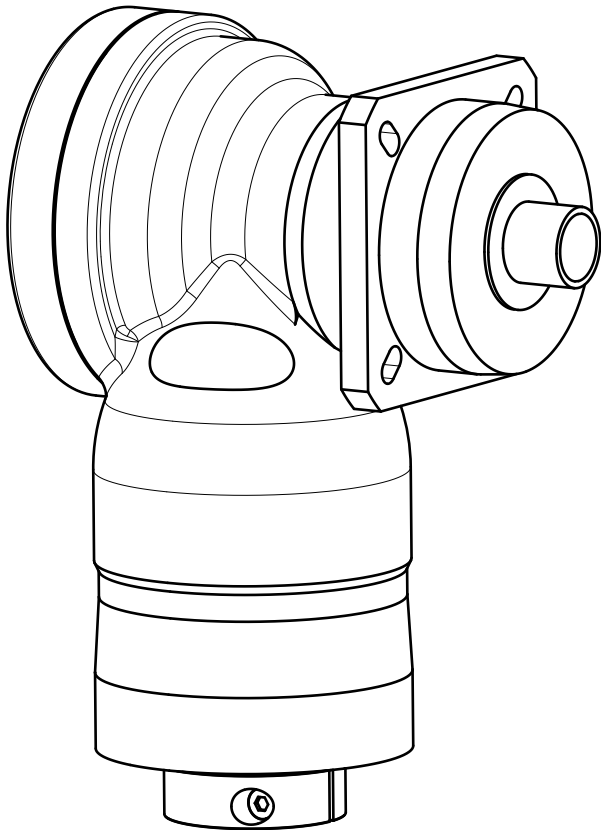
	Scale: 7:10	DIN A3	19
	Revision status: E from: 12.09.2018		
	Changed revision status: D from: 06.02.2018		
General tolerance DIN ISO 2768-cL	W GN070-aii-SSSG3AD-R(D20)		
Neugart GmbH Kettenstr. 16 D-77971 Kippenheim			50

Technical data	Character	Unit	
Bevel gearbox – gearing type	-	-	Hypoid teeth
Rotation direction	-	-	Input and output in opposite directions
Number of stages	z	-	1-stage
Output shaft bearing	-	-	Tapered roller bearing
Seal	-	-	Radial shaft seal
Service life (L10h)	t <sub>L</sub>	h	20.000
Max. operating temperature	T <sub>min</sub> / T <sub>max</sub>	°C	-25 / +90
Protection class	-	-	IP 65
Lubrication (lifetime lubrication)	-	-	Standard lubrication (oil)
Installation position	-	-	Any
Max. bending moment based on the gearbox input flange (for motor weight) (1)	M <sub>b</sub>	Nm	12
Motor flange precision	-	-	DIN 42955-R
Required motor shaft tolerance	-	-	j6; k6
Min. permissible motor shaft length	L <sub>20min</sub>	mm	13
Clamp screw tightening torque	T <sub>A,K</sub>	Nm	4,5
Reference operating mode	-	-	S1
Reference operating factor	K <sub>A</sub>	-	1
Reference speed	n <sub>2</sub>	rpm	100
Reference ambient temperature	T <sub>Amb</sub>	°C	20
Radial force for output bearing based on shaft center after L10h=20,000h with Fa=0N	F <sub>r 20.000h</sub>	N	2700
Axial force for output bearing based on gearbox axis after L10h=20,000h with Fr=0N	F <sub>a 20.000h</sub>	N	4300
Radial force for output bearing based on shaft center after L10h=30,000h with Fa=0N	F <sub>r 30.000h</sub>	N	2700
Axial force for output bearing based on gearbox axis after L10h=30,000h with Fr=0N	F <sub>a 30.000h</sub>	N	3700
Static radial force based on shaft center and T2=0Nm	F <sub>r Stat</sub>	N	2700
Static axial force based on gearbox axis and T2=0Nm	F <sub>a Stat</sub>	N	4300

Ratio-dependent data	Character	Unit					
Ratio	aii	-	4	5	7	8	10
Nominal output torque	T <sub>2N</sub>	Nm	45	42	28	27	22
Max. output torque for 30,000 output shaft rotations (2)	T <sub>2max</sub>	Nm	72	67	45	43	35
Emergency stop torque permitted 1000 times	T <sub>2Stop</sub>	Nm	100	100	75	75	75
Idle torque for n1=3,000 rpm and 20 °C gearbox temperature	T <sub>0</sub>	Nm	1,5	1,4	1,3	1,25	1,2
Average thermal input speed at 50% T2N, S1, and T_Amb Operating temperature may not be exceeded!	n <sub>1N 50%</sub>	rpm	1750	1900	2250	2300	2400
Average thermal input speed at 100% T2N, S1, and T_Amb Operating temperature may not be exceeded!	n <sub>1N 100%</sub>	rpm	1400	1600	2050	2050	2250
Max. mechanical input speed Operating temperature may not be exceeded!	n <sub>1 Limit</sub>	rpm	16000	16000	16000	16000	16000
Torsional backlash based on output shaft	j <sub>t</sub>	arcmin	< 5	< 5	< 5	< 5	< 5
Torsional stiffness based on output shaft	c <sub>g</sub>	Nm/arcmin	2,2	2,1	1,9	1,8	1,6
Efficiency at T2N, gearbox temperature 70 °C and n1=1,000rpm	η	%	94	93	89	89	86
Running noise at n1=3,000 rpm without load at a distance of 1m	Q <sub>g</sub>	dB(A)	66	66	66	66	66
Gearbox weight	m <sub>G</sub>	kg	2,8	2,8	2,8	2,8	2,8
Mass moment of inertia based on clamping system diameter input	J	kgcm²	0.834	0.604	0.536	0.521	0.502

(1) Max. motor weight\* in kg =  $\frac{0,2 \cdot M_b}{\text{motor length in m}}$

- \* with symmetrically distributed motor weight
- \* with horizontal and stationary mounting



Subject to modifications!



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