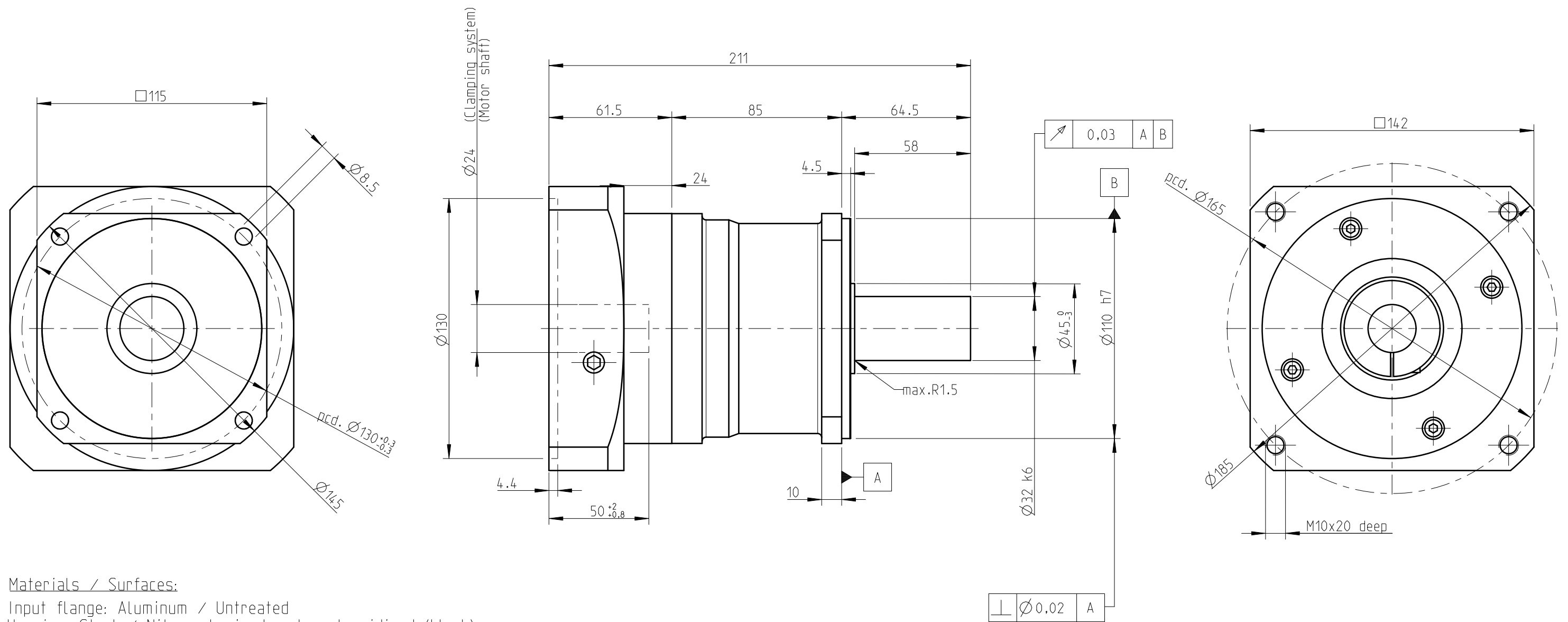




Materials / Surfaces:

Input flange: Aluminum / Untreated

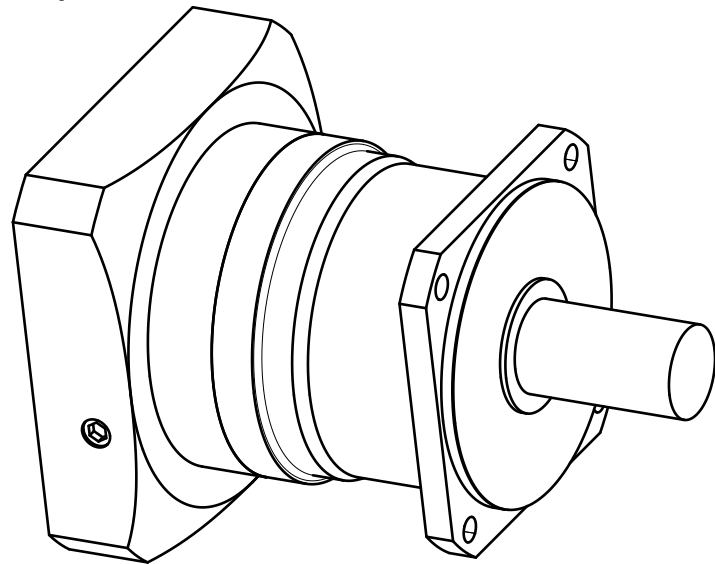
Housing: Steel / Nitrocarburized and post-oxidized (black)

Output flange: Steel / Untreated

Please see installation instructions!

Please see instruction manual!

Subject to modifications!



	Scale: 1:2	DIN A3	ISO
	Revision status: H from: 06.04.2016		
	Changed revision status: G from: 20.01.2014		
General tolerance DIN ISO 2768-cL	PLN115-003-SSSB4AF-Z24 /50/130/165/B5/M10		
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Technical data	Character	Unit	
Planetary gearbox - gearing type	-	-	Straight teeth
Number of stages	z	-	1-stage
Output shaft bearing	-	-	Tapered roller bearing
Seal	-	-	Radial shaft seal
Service life (L10h)	t _L	h	20.000
Max. operating temperature	T _{min} / T _{max}	°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 _b	Nm	80
Motor flange precision	-	-	DIN 42955-R
Required motor shaft tolerance	-	-	j6; k6
Min. permissible motor shaft length	L _{20 min}	mm	33
Clamp screw tightening torque	T _{A,K}	Nm	16,5
Reference operating mode	-	-	S1
Reference operating factor	K _A	-	1
Reference speed	n ₂	rpm	100
Reference ambient temperature	T _{Amb}	°C	20
Radial force for output bearing based on shaft center after L10h=20,000h with Fa=0N	F _{r 20.000h}	N	6000
Axial force for output bearing based on gearbox axis after L10h=20,000h with Fr=0N	F _{a 20.000h}	N	8000
Radial force for output bearing based on shaft center after L10h=30,000h with Fa=0N	F _{r 30.000h}	N	5400
Axial force for output bearing based on gearbox axis after L10h=30,000h with Fr=0N	F _{a 30.000h}	N	7000
Static radial force based on shaft center and T2=0Nm	F _{r Stat}	N	6000
Static axial force based on gearbox axis and T2=0Nm	F _{a Stat}	N	8000

Ratio-dependent data	Character	Unit	
Ratio	a _{ii}	-	3
Nominal output torque	T _{2N}	Nm	230
Max. output torque for 30,000 output shaft rotations	T _{2max}	Nm	368
Emergency stop torque permitted 1000 times	T _{2Stop}	Nm	490
Idle torque for n1=3,000 rpm and 20 °C gearbox temperature	T ₀	Nm	2,3
Average thermal input speed at 50% T2N, S1, and T_Amb Operating temperature may not be exceeded!	n _{1N 50%}	rpm	1400
Average thermal input speed at 100% T2N, S1, and T_Amb Operating temperature may not be exceeded!	n _{1N 100%}	rpm	1050
Max. mechanical input speed Operating temperature may not be exceeded!	n _{1 Limit}	rpm	8500
Torsional backlash based on output shaft	j _t	arcmin	< 3
Torsional stiffness based on output shaft	c _g	Nm/arcmin	26
Efficiency at T2N, gearbox temperature 70 °C and n1=1,000rpm	η	%	98
Running noise at n1=3,000 rpm without load at a distance of 1m	Q _g	dB(A)	71
Gearbox weight	m _G	kg	6,7
Mass moment of inertia based on clamping system diameter input	J	kgcm ²	3,256

(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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