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Find the *Wittenstein / Alpha LP 120-M01-10* at our website: *Click HERE*

LP+ 120 MF 1/2-stage

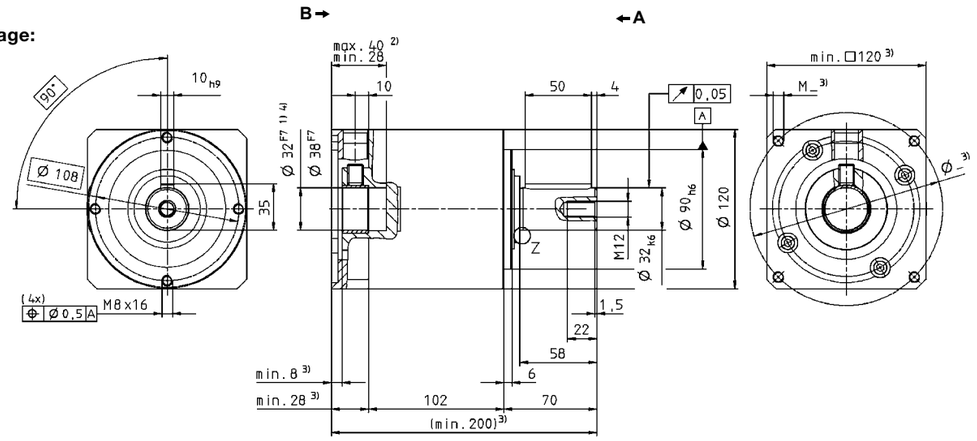
			1-stage					2-stage									
Ratio	***i***		**3**	**4**	**5**	**7**	**10**	**9**	**12**	**16**	**20**	**25**	**30**	**40**	**50**	**70**	**100**
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	305	305	250	250	220	305	305	305	305	250	305	305	250	250	220
		in.lb	2700	2700	2210	2210	1950	2700	2700	2700	2700	2210	2700	2700	2210	2210	1950
Nominal output torque (with n_{1N})	T_{2N}	Nm	155	155	125	125	110	155	155	155	155	125	155	155	125	125	110
		in.lb	1370	1370	1110	1110	970	1370	1370	1370	1370	1110	1370	1370	1110	1110	970
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	400	480	480	480	480	480	480	480	480	480	480	480	480	480	480
		in.lb	3540	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250
Nominal input speed (with T_{2N} and 20°C ambient temperature) [a]	n_{1N}	rpm	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
Max. input speed	n_{1Max}	rpm	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800
Mean no load running torque (with n_1=3000 rpm and 20°C gearhead temperature)	T_{012}	Nm	1.1	1.0	0.9	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4
		in.lb	9.7	8.9	8.0	7.1	7.1	5.3	5.3	4.9	4.4	4.4	3.5	4.4	3.5	3.5	3.5
Max. torsional backlash	j_t	arcmin	≤ 8					≤ 10									
Torsional rigidity	C_{t21}	Nm/ arcmin	30	30	25	25	22	30	30	30	30	25	25	30	25	25	22
		in.lb/ arcmin	270	270	220	220	190	270	270	270	270	220	220	270	220	220	190
Max. axial force [b]	F_{2AMax}	N	4000					4000									
		lb_f	900					900									
Max. radial force [b]	F_{2RMax}	N	4600					4600									
		lb_f	1035					1035									
Efficiency at full load	η	%	97					95									
Service life (For calculation, see the Chapter "Information")	L_h	h	> 20000					> 20000									
Weight incl. standard adapter plate	*m*	kg	8.6					11.0									
		lb_m	19.0					24.3									
Operating noise (with n_1=3000 rpm no load)	L_{PA}	dB(A)	≤ 68														
Max. permitted housing temperature		°C	+90														
		F	194														
Ambient temperature		°C	-15 to +40														
		F	5 to 104														
Lubrication			Lubricated for life														
Paint			Blue RAL 5002														
Direction of rotation			Motor and gearhead same direction														
Protection class			IP 64														
Moment of inertia (relates to the drive)	I	32	J_1	kgcm²	6.9	5.9	5.6	5.2	5.1	5.4	5.4	5.5	5.5	5.3	5.3	5.0	5.0	5.0	5.0
				10^{-3} in.lb.s²	6.1	5.3	4.9	4.6	4.5	4.7	4.7	4.9	4.9	4.7	4.7	4.4	4.4	4.4	4.4
Clamping hub diameter (mm)	K	38	J_1	kgcm²	7.8	6.8	6.4	6.1	5.9	6.2	6.2	6.4	6.4	6.2	6.2	5.9	5.9	5.9	5.9
				10^{-3} in.lb.s²	6.9	6.0	5.7	5.4	5.2	5.5	5.5	5.7	5.7	5.5	5.5	5.2	5.2	5.2	5.2

[a] For higher ambient temperatures, please reduce input speed
[b] Refers to center of the output shaft, if n_2 = 100 rpm

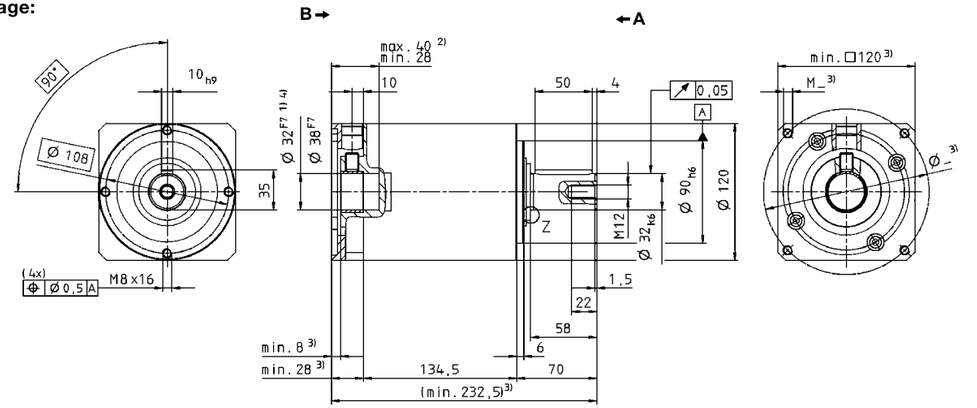
View A

View B

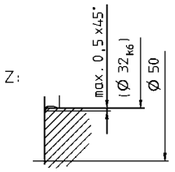
LP+ 1-stage:



LP+ 2-stage:



Z:



Non-tolerated dimensions ±1mm
1) Check motor shaft fit.
2) Min./Max. permissible motor shaft length. Longer motor shafts are adaptable, please contact us.
3) The dimensions depend on the motor.
4) Smaller motor shaft diameter is compensated by a bushing. Motor shaft diameters up to 38mm available – please contact WITTENSTEIN alpha

⚠ Motor mounting according to operating manual

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LP+ 120 MF 1/2-stage

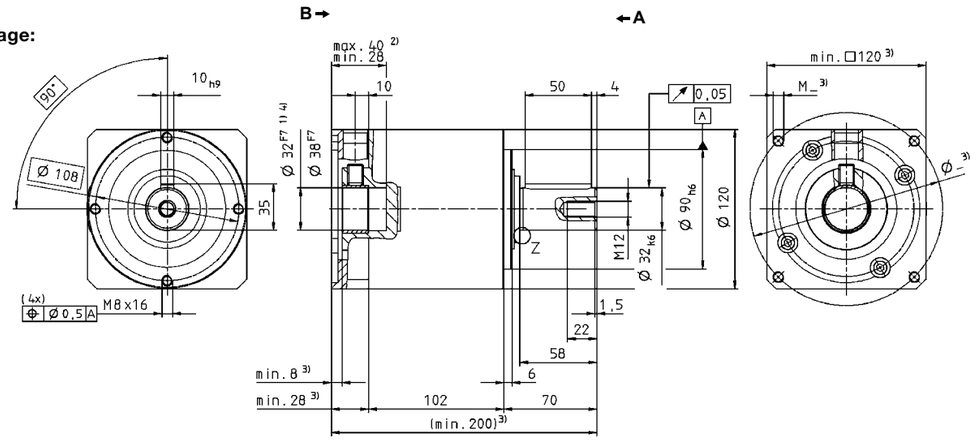
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Nominal output torque (with n_{1N})	T_{2N}	Nm	155	155	125	125	110	155	155	155	155	125	155	155	125	125	110
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				10^{-3} in.lb.s²	6.9	6.0	5.7	5.4	5.2	5.5	5.5	5.7	5.7	5.5	5.5	5.2	5.2	5.2	5.2

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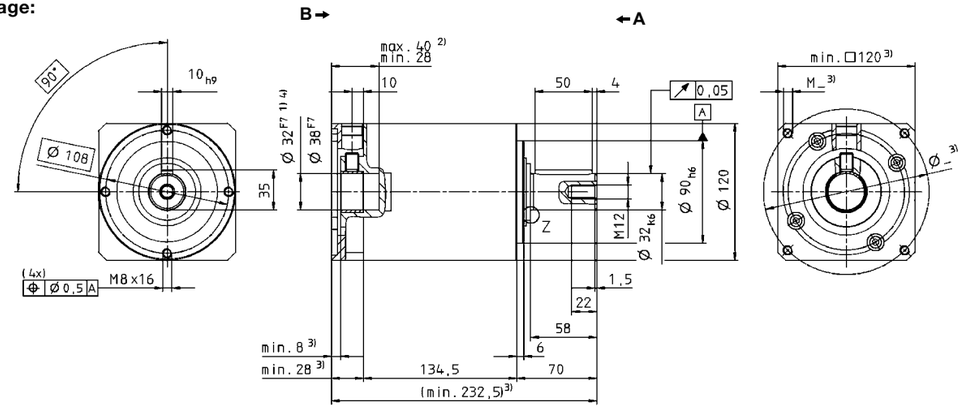
View A

View B

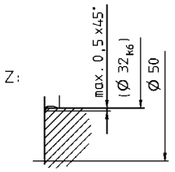
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LP+ 2-stage:



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