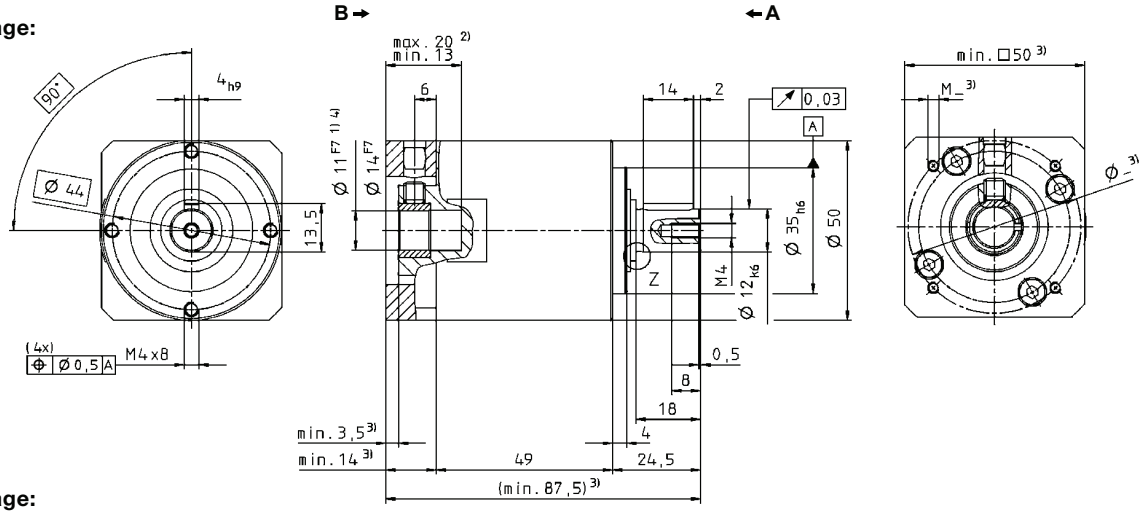
LP+ 050 MF 1/2-stage

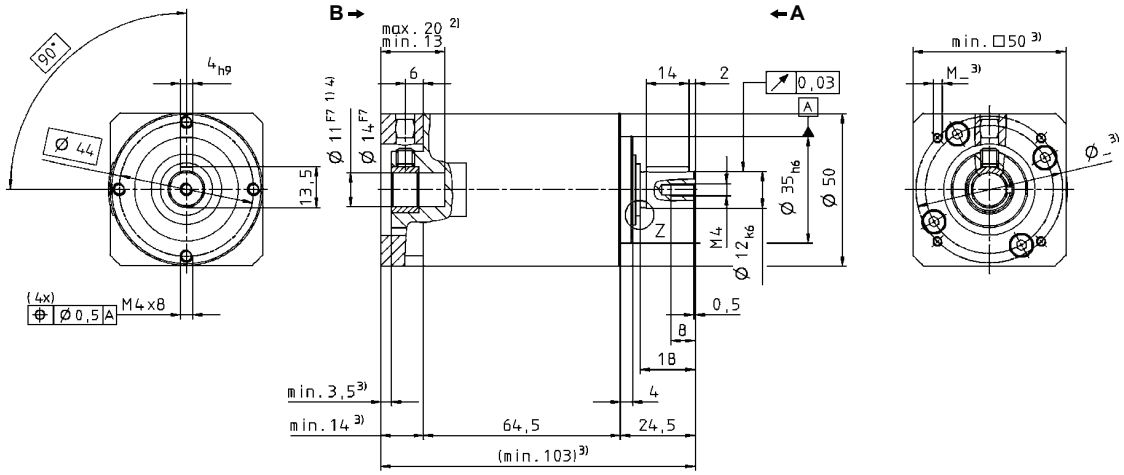
					1-stage				2-stage						
Ratio [a]			***i***		**4**	**5**	**7**	**10**	**16**	**20**	**25**	**35**	**50**	**70**	**100**
Max. acceleration torque (max. 1000 cycles per hour)			T_{2B}	Nm	13	14	14	13	13	13	14	14	14	14	13
				in.lb	120	120	120	120	120	120	120	120	120	120	120
Nominal output torque (with n_{1N})			T_{2N}	Nm	6	6.5	6.5	6	6	6	6.5	6.5	6.5	6.5	6
				in.lb	53	58	58	53	53	53	58	58	58	58	53
Emergency stop torque (permitted 1000 times during the service life of the gearhead)			T_{2Not}	Nm	26	26	26	26	26	26	26	26	26	26	26
				in.lb	230	230	230	230	230	230	230	230	230	230	230
Nominal input speed (with T_{2N} and 20°C ambient temperature) [b]			n_{1N}	rpm	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Max. input speed			n_{1Max}	rpm	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Mean no load running torque (with n_1 = 3000 rpm and 20°C gearhead temperature)			T_{012}	Nm	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
				in.lb	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Max. torsional backlash			j_t	arcmin	≤ 10				≤ 13						
Torsional rigidity			C_{t21}	Nm/ arcmin	1.5	1.2	1.2	0.9	1.5	1.5	1.2	1.2	1.2	1.2	0.9
				in.lb/ arcmin	13	11	11	8	13	13	11	11	11	11	8
Max. axial force [c]			F_{2AMax}	N	700				700						
				lb_f	160				160						
Max. radial force [c]			F_{2RMax}	N	650				650						
				lb_f	150				150						
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	0.75				0.95						
				lb_m	1.7				2.1						
Operating noise for i=10 and n_1 = 3000 rpm without load			L_{PA}	dB(A)	≤ 62										
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)	B	11	J_1	$kgcm^2$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
				10^{-3} in.lb.s^2	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04
Clamping hub diameter (mm)	C	14	J_1	$kgcm^2$	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
				10^{-3} in.lb.s^2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

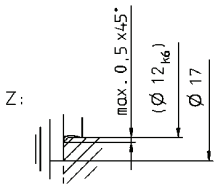
[a] Other ratios are available on request: i = 40
[b] For higher ambient temperatures, please reduce input speed
[c] Refers to center of the output shaft, if n_2 = 100 rpm

LP⁺ 1-stage:



LP⁺ 2-stage:





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 14mm available – please contact WITTENSTEIN alpha

CAD data is available under www.wittenstein-alpha.com

Motor mounting according to operating manual