

TPK+ 010 MF 3-stage

		3-stage															
Ratio ^{a)}		<i>i</i>	64	84	100	125	140	175	200	250	280	350	400	500	700	1000	
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	120	120	130	130	130	130	130	130	130	130	80	100	130	100	
		in.lb	1062	1062	1151	1151	1151	1151	1151	1151	1151	1151	1151	708	885	1151	885
Nominal output torque (with n_m)	T_{2N}	Nm	85	85	90	90	90	90	90	90	75	90	60	75	90	60	
		in.lb	752	752	797	797	797	797	797	797	664	797	531	664	797	531	
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	200	160	250	250	250	250	250	250	250	250	160	200	250	250	
		in.lb	1770	1416	2213	2213	2213	2213	2213	2213	2213	2213	1416	1770	2213	2213	
Nominal input speed (with T_{2N} and 20 °C ambient temperature) ^{b), c)}	n_{1N}	rpm	4400	4400	4400	4400	4400	4400	4400	4800	4400	4800	5500	5500	5500	5500	
Max. continuous speed (with 20 % T_{2N} and 20 °C ambient temperature)	n_{1Nom}	rpm	5000	5000	5000	5000	5000	5000	5000	5000	5000	5500	5500	5500	5500	5500	
Max. input speed	n_{1Max}	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
Mean no load running torque (with $n_1=3000$ rpm and 20 °C gearhead temperature) ^{d)}	T_{012}	Nm	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
		in.lb	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Max. torsional backlash	j_t	arcmin	Standard ≤ 5 / Reduced ≤ 3														
Torsional rigidity	C_{21}	Nm/arcmin	16	16	20	21	20	21	20	21	23	24	15	19	22	27	
		in.lb/arcmin	142	142	177	186	177	186	177	186	204	212	133	168	195	239	
Tilting rigidity	C_{2K}	Nm/arcmin	225														
		in.lb/arcmin	1991														
Max. axial force ^{e)}	F_{2AMax}	N	2150														
		lb _f	484														
Max. tilting moment	M_{2KMMax}	Nm	235														
		in.lb	2080														
Efficiency at full load	η	%	92														
Service life (For calculation, see the Chapter "Information")	L_h	h	> 20000														
Weight incl. standard adapter plate	<i>m</i>	kg	5,5														
		lb _m	12,2														
Operating noise (with $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 66														
Max. permitted housing temperature		°C	90														
		F	194														
Ambient temperature		°C	0 to +40														
		F	32 to 104														
Lubrication			Lubricated for life														
Paint			Blue RAL 5002														
Direction of rotation			Motor and gearhead opposite directions														
Protection class			IP 65														
Moment of inertia (relates to the drive) Clamping hub diameter [mm]	B	11	J_1	kgcm ²	0.09	0.07	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
				10 ⁴ in.lb.in ²	0.08	0.06	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	C	14	J_1	kgcm ²	0.20	0.18	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17
				10 ⁴ in.lb.in ²	0.18	0.16	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Please contact us for information on the best configuration for S1 conditions of use (continuous operation).

^{a)} Other ratios available on request

^{b)} Higher speeds are possible if the nominal torque is reduced

^{c)} For higher ambient temperatures, please reduce input speed

^{d)} Idling torques decrease during operation

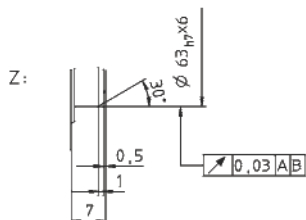
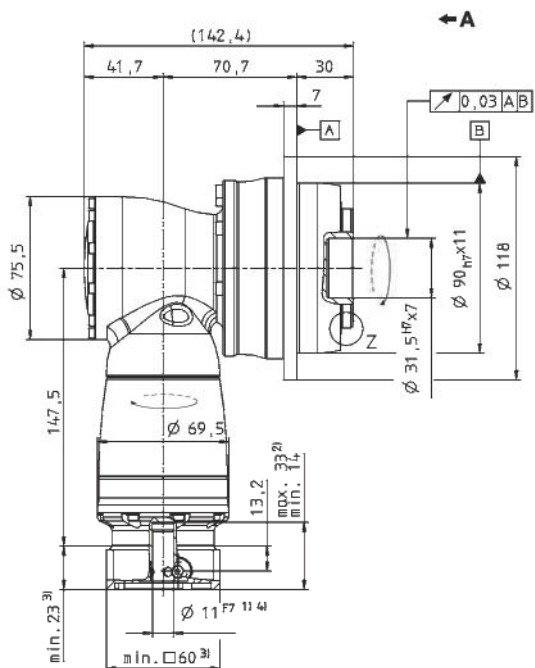
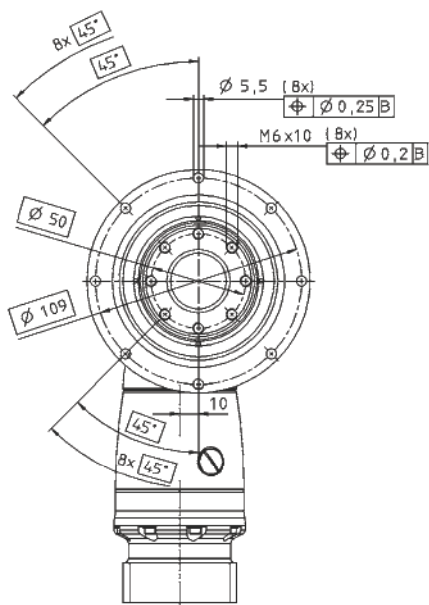
^{e)} Refers to center of the output shaft or flange

All technical data for front output side applies.

Please request information for rear output side versions.

View A

3-stage:



See technical data sheet for available clamping hub diameters (mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions ± 1 mm

- 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 with a minimum thickness of 1 mm.

Motor mounting according to operating manual