

		2-stage									
Ratio ^{a)}	i	16	20	25	28	35	40	50	70	100	
Cymex [®] -optimized acceleration torque (please contact us regarding this design)	T _{dyn}	Nm	142	142	160	142	160	135	142	100	
		in lb	125.4	125.4	141.6	125.4	141.6	119.5	125.4	88.3	
Max. acceleration torque (max. 1000 cycles per hour)	T _{acc}	Nm	110	110	110	110	110	110	110	90	
		in lb	97.4	97.4	97.4	97.4	97.4	97.4	97.4	79.7	
Nominal output torque (with n ₀)	T _N	Nm	75	75	75	75	75	75	75	52	
		in lb	66.4	66.4	66.4	66.4	66.4	66.4	66.4	45.0	
Emergency stop torque (permitted 1000 times during the service life of the gearbox)	T _{stop}	Nm	250	250	250	250	250	250	250	200	
		in lb	221.3	221.3	221.3	221.3	221.3	221.3	221.3	177.0	
Nominal input speed (with T _N and 20°C ambient temperature) ^{b)}	n _{IN}	rpm	3500	3500	3500	3500	3500	3500	3500	4500	
		rpm	6000	6000	6000	6000	6000	6000	6000	6000	
Mean no load running torque (with n ₀ = 3000 rpm and 20°C gearbox temperature) ^{c)}	T _{0r2}	Nm	0.8	0.6	0.6	0.5	0.4	0.4	0.3	0.3	
		in lb	4.4	3.5	3.5	2.7	1.8	1.8	1.8	1.8	
Max. torsional backlash		Standard ≤ 6 / Reduced ≤ 4									
Torsional rigidity	J _t	acromin									
		Nm/mm	10								
Max. axial force ^{d)}	F _{ax}	N	89								
		lb _f	3350								
Max. radial force ^{d)}	F _{rad}	N	754								
		lb _f	4200								
Max. tilting moment	M _{tilt}	Nm	236								
		in lb	2089								
Efficiency at full load	η	%	94								
Service life (For calculation, see the Chapter "Information")	L _n	h	> 20000								
		kg	3.6								
Weight incl. standard adapter plate	m	lb _m	8.0								
Operating noise (with n = 100 and n ₀ = 3000 rpm no load)	L _{WA}	dB(A)	≤ 59								
		°C	+90								
Max. permitted housing temperature		°C	0 to +40								
		F	32 to 104								
Ambient temperature		F	Lubricated for life								
			Blue RAL 5002								
Paint			Motor and gearhead same direction								
			IP 65								
Direction of rotation											
Protection class											
Moment of inertia (please see the drive) (Clamping hub diameter [mm])	B 11	J _i	kgcm ²	0.16	0.13	0.10	0.091	0.090	0.089	0.088	
			lb ⁱⁿ	0.14	0.11	0.092	0.080	0.081	0.079	0.079	
	C 14	J _i	kgcm ²	0.23	0.20	0.18	0.17	0.16	0.16	0.16	
			lb ⁱⁿ	0.20	0.18	0.16	0.15	0.15	0.14	0.14	
	E 19	J _i	kgcm ²	0.55	0.53	0.52	0.50	0.49	0.49	0.49	
			lb ⁱⁿ	0.49	0.47	0.46	0.44	0.43	0.43	0.43	

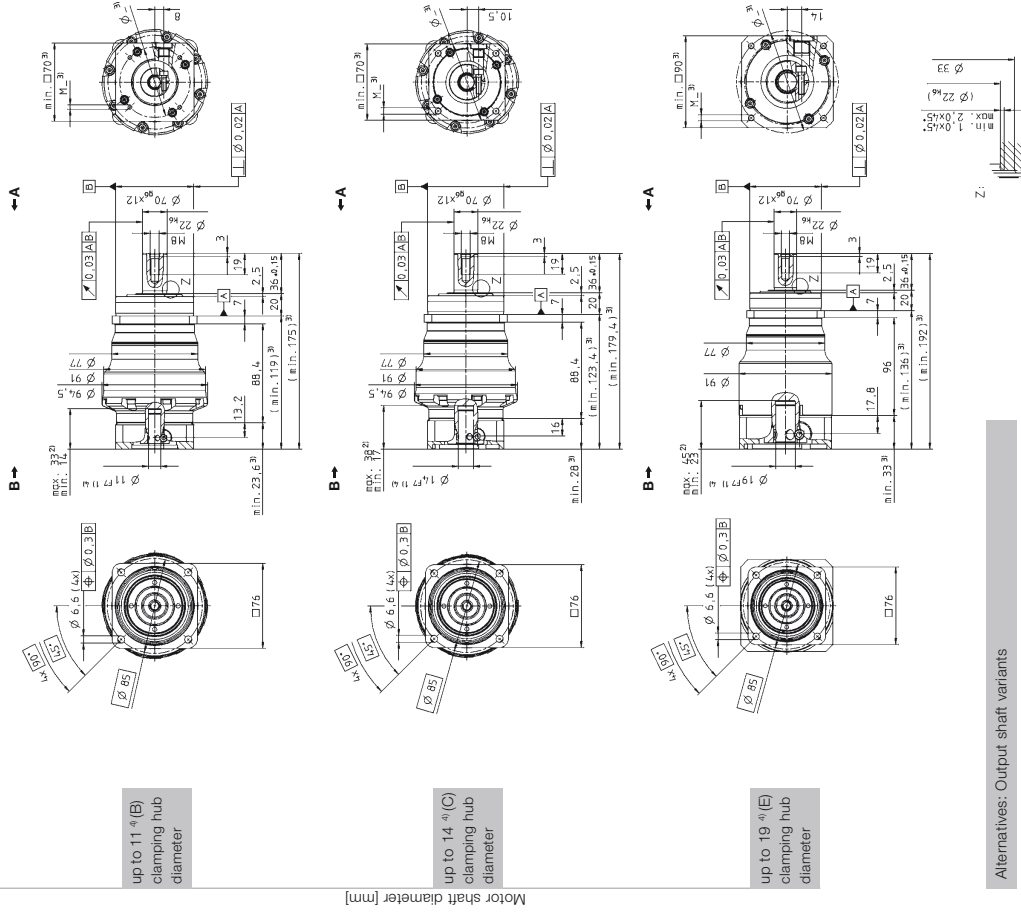
Reduced mass moments of inertia available on request.

^{a)} Other ratios available on request

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

^{c)} Valid for clamping hub diameter of 14 mm

^{d)} Refers to centre of the output shaft or flange

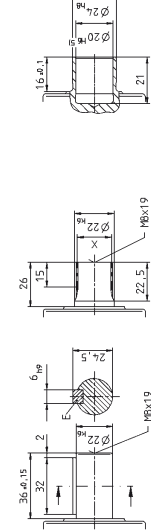


Alternatives: Output shaft variants

Keywayed output shaft in mm
E = Key as per DIN 6880, shaft 1, form A

Shaft mounted
Mounted via ISO shrink disc

Involute gearing DIN 5480 in mm
X = W 22 A 1.25 x 3.5 x 15 50m, DIN 5480



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.
- 5) Tolerance h6 for mounted shaft.

Motor mounting according to operating manual