

Planetary gearheads.

Optimax 63

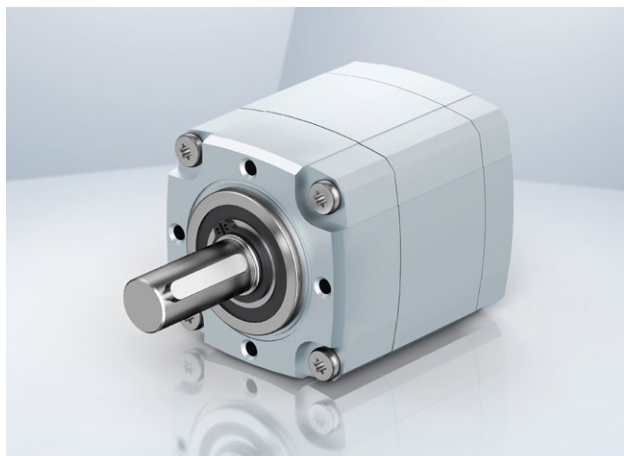


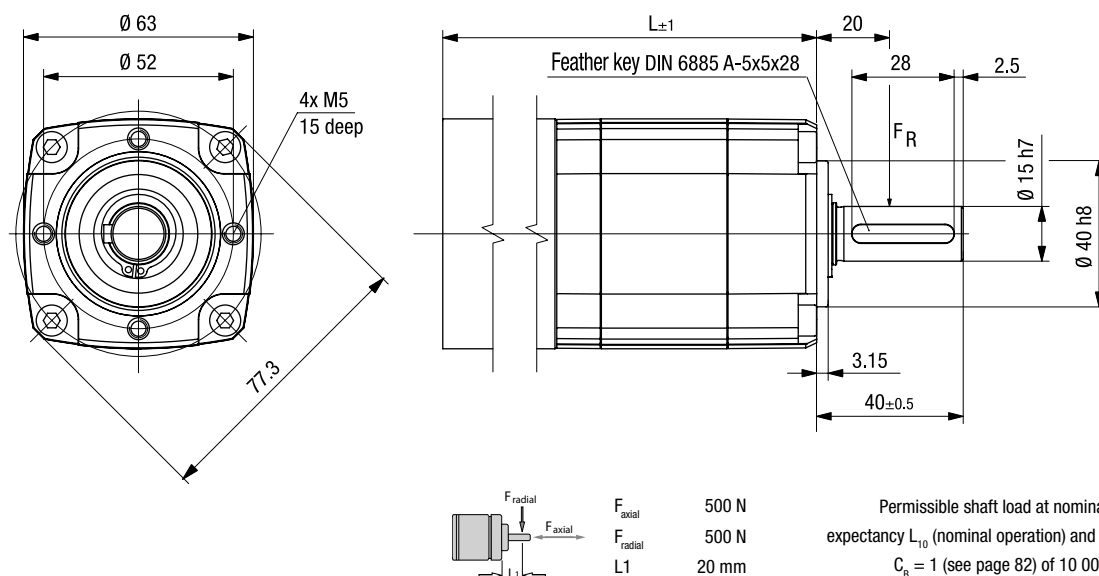
Image of 1-stage gearhead

- Extreme high overload capability to cope with peak torques
- Robust gearhead concept for extended service life
- Modular design and interfaces for maximum flexibility within ebm-papst modular system
- High efficiency realized in a compact design
- Noise optimized version with planetary wheels made from high-strength plastic
- Protection class IP 50 (optional IP 54)

Nominal data								
Gearheads		Optimax 63.1			Optimax 63.2			
Reduction ratio		3.0	5.0	9.0	9.0	15	25	45
No. of stages		1			2			
Efficiency		0.90			0.81			
Max. input speed (n _i)	rpm	6 000			6 000			
Rated output torque (M _{ab})*/**	Nm	40.0 (13.0)	40.0 (13.0)	25.0 (6.00)	68.0 (35.0)	68.0 (58.0)	68.0 (58.0)	58.0 (27.0)
Short-term torque (M _{max})**	Nm	120.0 (39.0)	120.0 (39.0)	75.0 (18.0)	150.0 (105.0)	150.0 (150.0)	150.0 (150.0)	150.0 (81.0)
Gear play	°	< 0.9			< 1.2			
Permissible operating temperature (T _v)	°C	-30 ... +90			-30 ... +90			
Operating mode		S1 / S3***			S1 / S3***			
Protection class		50			50			
Weight	kg	1.3			1.9			
Shaft load radial / axial	N	500 / 500			500 / 500			
Service life	h	10 000			10 000			
Lubrication		Maintenance-free grease lubrication for life						
Installation position		any						
Subject to alterations	* In S1 operation ** Value 1 applies to planetary gears (single stage) made from high-strength steel. Value 2 (in brackets) applies to planetary gears (single stage) made from high-strength plastic. *** M _{eff} = M _{ab}							
Preferred type: ready to ship in 48 hours	on request							

Technical drawing

Image of 1-stage gearhead / All dimensions in mm



Length of the possible motor / gearhead combinations

Motor / gearhead		L - 1-stage	L - 2-stage
ECI-63.20-K1-O63	mm	177	208
ECI-63.40-K1-O63	mm	197	228
ECI-63.60-K1-O63	mm	217	248
ECI-63.20-K3-O63	mm	190	221
ECI-63.40-K3-O63	mm	210	241
ECI-63.60-K3-O63	mm	230	261
ECI-63.20-K4-O63	mm	190	221
ECI-63.40-K4-O63	mm	210	241
ECI-63.60-K4-O63	mm	230	261
ECI-63.20-K5-O63	mm	184	242
ECI-63.40-K5-O63	mm	204	235
ECI-63.60-K5-O63	mm	224	255
ECI-80.20-K1-O63	mm	168	199
ECI-80.40-K1-O63	mm	188	219
ECI-80.60-K1-O63	mm	208	239

Subject to alterations