

output shaft bearing: taper roller bearing

- max. radial load: 6300N by $n_2=100$ 1/min Lh > 10.000h
- max. axial load: 5600N by $n_2=100$ 1/min Lh > 10.000h
- reference to shaft center at temp. = 30°C

straight-toothed planetary gearbox

backlash: $\leq 3 / 5$ arcmin reference to output shaft

torsional stiffness: 40 Nm/arcmin

lifetime: > 30.000h

efficiency at load: 96% (depends on ratio)

lubrication: lifetime lubrication

running noise: ≤ 64 dbA (measured in 1m distance at $n_1=3000$ 1/min)

nominal output torque at $n_1 = 3000$ 1/min

$i =$	3	4 / 5 / 7	10
nominal output torque [Nm]	110	150	115
max. acceleration torque [Nm]	180	250	200
emergency torque [Nm]	500	600	500

allowed average speed: 4000 1/min


max. speed: 6000 1/min (allowed operating temp. must be considered)

operating temperature: -20°C bis +90°C

motor mounting: M2 (supported drive pinion)

- torque of clamping screw: 10 Nm
- operation mode: S1
 operation ratio: S1
 protection system IP 65

consider mounting instruction
 subject to modifications

Zust	Anderung	Datum	Name	Ursprung:	Ersatz für:	Ersatz durch:	Blatt
							1 Bl.
Allgemein- toleranzen ISO 2768-mH Datum Bearb. 07.08.16 Gepr. Norm Tolerierung ISO 8015					Maßstab (Werkstoff Halbzeug) (Rohteil-Nr) (Modell- oder Gassenk-Nr)		
Kanten ISO 13715 Name BITZER					ESP 100/1 19x40 pd80 bc100 4xM6 sq106		
					DS1000409-1		