Bearing-types for Groschopp AC- and DC- motors

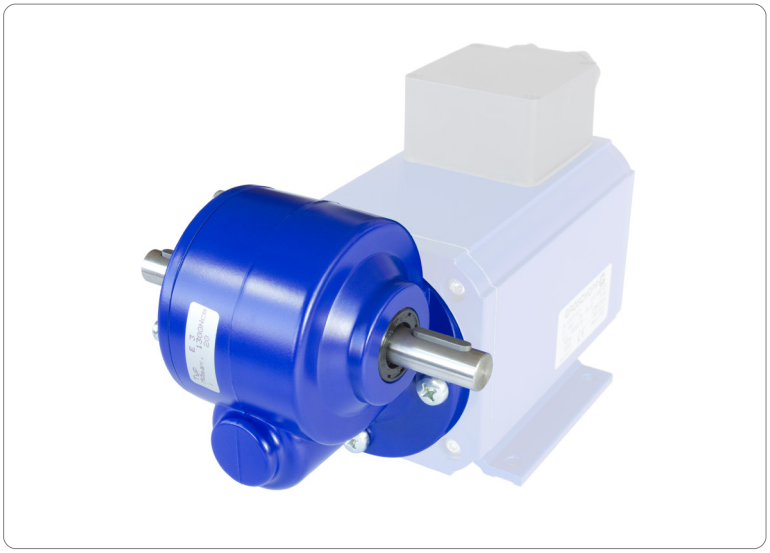
E3

up to 13Nm

reinforced, smooth compact-gearbox

Worm wheel gearboxes – single reduction

- cap-design
- gear ratio from 7:1 to 56:1
- double-sided shaft transfer
- shaft with key



Certifications

CE

BRETZEL GmbH · Antriebs- und Elektrotechnik
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www.bretzel-gmbh.de · info@bretzel-gmbh.de

Any questions concerning this product?
Please give us a call:
Telephone 0 61 50 / 8 65 60 - 0

Technical Data

maximum allowed torque	1300 Ncm
maximum load of the drive shaft	
maximum radial load	150 N (at center of output shaft extension)
maximum axial load	100 N
static self-locking [1]	i=56:1
dynamic self-locking [1]	-
maximum thermal dissipation (continuous operation)	35 W
weight	ca. 0,9 kg
material of worm wheel	bronze
material of casing	AL-diecast
surface of casing	painted, RAL 5002

[1] self-locking

The self-locking is being influenced by the pitch angle, surface-roughness, shoulders, sliding speed, and by the lubricant as well as the warming. There are dynamic and static self-locking, which two distinct forms of self-locking.

dynamic self-locking

pitch angle up to 3°	using grease
pitch angle up to 2,5°	using synthetic oils as lubricant

static self-locking

pitch angle from 3° to 5°	using grease
pitch angle from 2,5° to 4,5°	using synthetic oils as lubricant
pitch angle above 4,5° and 5° respectively	no self-locking

Shock or vibrations can stop self-locking from occurring. Furthermore several different factors connected to lubrication, sliding speed and load capacity can cause favorable sliding-properties, so that the self-locking is negatively influenced. This is the reason, why we will not assume indemnity bonds concerning self-locking.

Available ratios

i =	7:1	11,3:1	17:1	20:1	28:1	30:1	32:1	38:1	(56:1)

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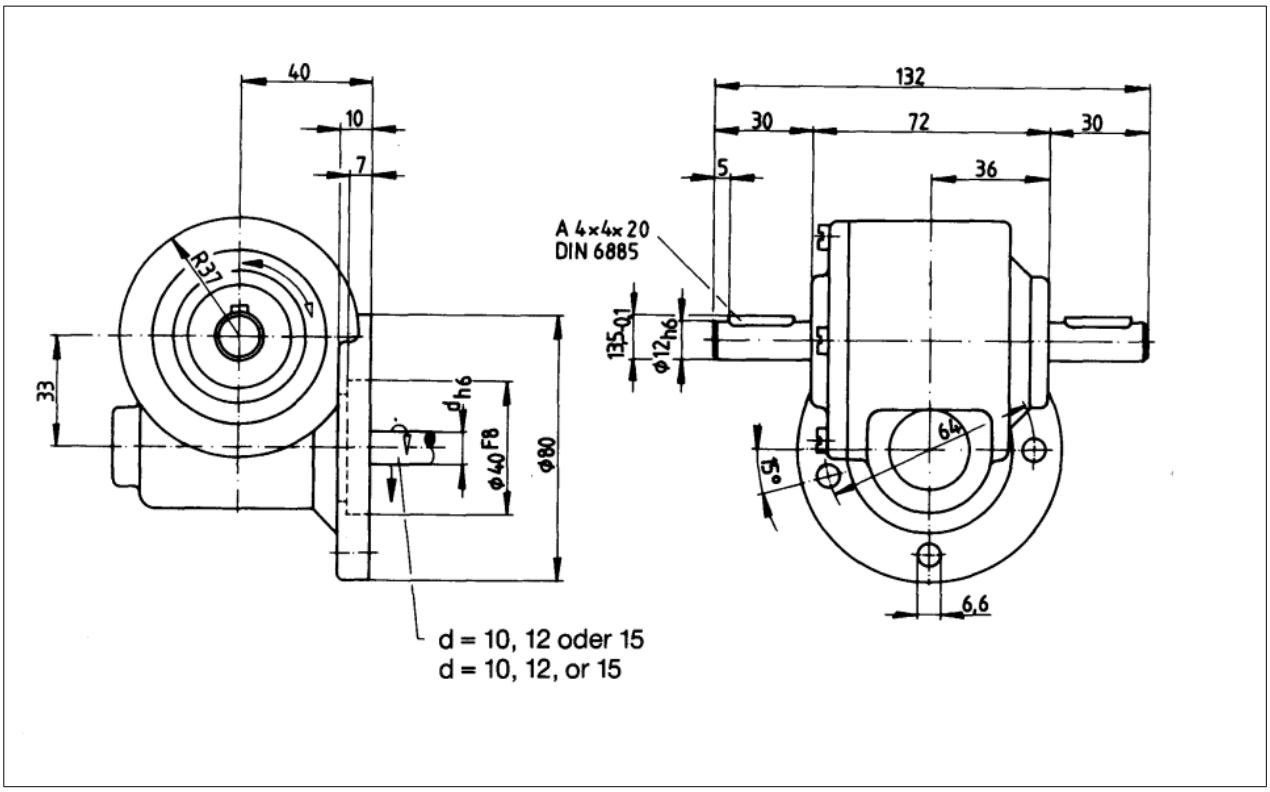
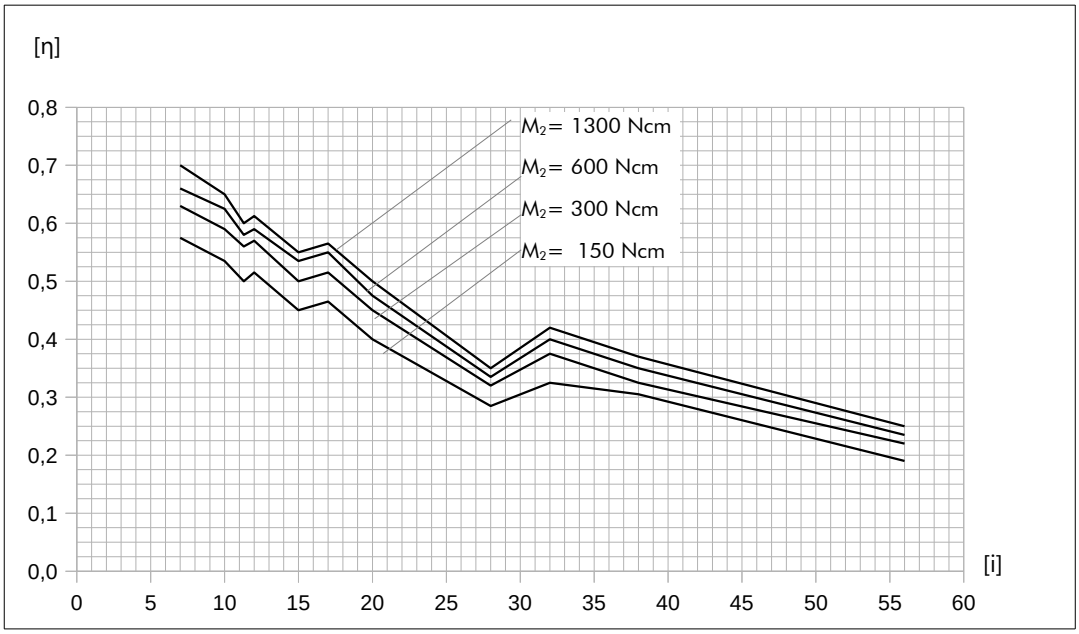
drawings E3



(Dimensions without tolerances are not binding)

efficiency factor



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