Ball Bearing Freewheel Clutch Unit FKNN (2RS)

with keyway (IR) and rectangular groove (OR)





Components

Freewheel clutch insert element FE 400 Z2

| + Raceways inner ring outer ring | Bearing steel, hardened and ground Keyway per DIN 6885, Sheet 3 (Sizes 6203-6206) Keyway per DIN 6885, Sheet 1 (Sizes 6207-6208) Tolerance: P9 with back clearance Rectangular groove |
|--|---|
| + Ball bearing | Integrated |

- Roller bearing -

| + Lubrication | lifetime grease lubrication* |
|---------------|------------------------------|
|---------------|------------------------------|

+ Seal

RS seals*

* Series FKNN 2RS (with RS seals)

Characteristics

Dimensions

GMN FK 6206

Dimensions in accordance with bearing series 62 (DIN 625) Width 12 / 14 / 15 / 16 / 18 mm

Operating temperature

max. 140°C Higher temperatures on request max. 110°C (design 2RS with RS seals)

Lubrication

Series FKNN 2RS with seals Operative lifetime grease lubrication

Series FKNN without seals Oil or grease lubrication (*Pc. 60–61*) Delivered with corrosion protection.

Installation

Installation tolerances Shaft n6; hub N7

Mating parts

Hardening and grinding of the mating parts is not necessary. Thoroughly clean (grease free) the mating parts in the vicinity of the freewheel clutch as well as the freewheel clutch's rings before making the press fit.

Bearing

The freewheel clutch is bearing mounted. Additional external bearing support is not necessary.

Press fit pressure

Press fit pressure must not be applied to the balls.

Clamping direction

The arrow on the inner ring designates the inner ring's clamping direction.

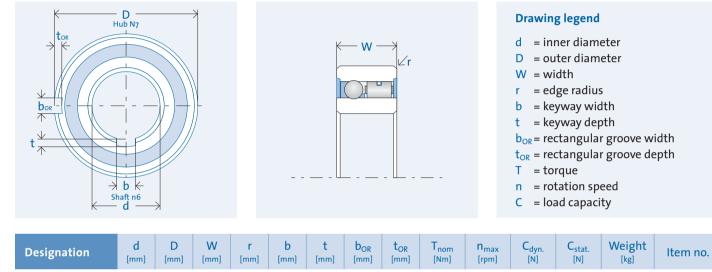
Seals*

The employed RS seals reliably seal out grease and dust but are not suitable protection against the presence of liquids.

Series FKNN 6203-RS has a RS seal disc on one side only (RS seal on the freewheel side).



Data



| Designation | [mm] | [Nm] | [rpm] | [N] | [N] | [kg] | item no. |
|---------------|------|------|------|------|------|------|------|------|------|--------|-------|-------|------|----------|
| FKNN 6203 | 17 | 40 | 12 | 1 | 5 | 1.2 | 2 | 1 | 53 | 10,800 | 6,245 | 3,441 | 0.07 | 305989 |
| FKNN 6203-RS | 17 | 40 | 12 | 1 | 5 | 1.2 | 2 | 1 | 53 | 3,700 | 6,245 | 3,441 | 0.07 | 305990 |
| FKNN 6204 | 20 | 47 | 14 | 1.5 | 6 | 1.6 | 3 | 1,5 | 60 | 7,500 | 6,869 | 4,268 | 0.12 | 305992 |
| FKNN 6204-2RS | 20 | 47 | 14 | 1.5 | 6 | 1.6 | 3 | 1,5 | 60 | 3,200 | 6,869 | 4,268 | 0.12 | 305993 |
| FKNN 6205 | 25 | 52 | 15 | 1.5 | 8 | 2 | 6 | 2 | 104 | 5,400 | 7,448 | 5,146 | 0.14 | 305995 |
| FKNN 6205-2RS | 25 | 52 | 15 | 1.5 | 8 | 2 | 6 | 2 | 104 | 2,800 | 7,448 | 5,146 | 0.14 | 305996 |
| FKNN 6206 | 30 | 62 | 16 | 1.5 | 8 | 2 | 6 | 2 | 148 | 5,100 | 7,859 | 6,066 | 0.22 | 305998 |
| FKNN 6206-2RS | 30 | 62 | 16 | 1.5 | 8 | 2 | 6 | 2 | 148 | 2,400 | 7,859 | 6,066 | 0.22 | 305999 |
| FKNN 6028 | 40 | 80 | 18 | 1.5 | 12 | 3.3 | 10 | 3 | 267 | 3,700 | 8,902 | 7,752 | 0.44 | 306004 |
| FKNN 6208-2RS | 40 | 80 | 18 | 1.5 | 12 | 3.3 | 10 | 3 | 267 | 1,900 | 8,902 | 7,752 | 0.44 | 306005 |
| FKNN 6304-2RS | 20 | 52 | 15 | 1.5 | 6 | 2 | 6 | 2 | 104 | 2,800 | 7,448 | 5,146 | 0.15 | 306137 |

All specifications for series FKNN 2RS (with seals) and series FKNN (without seals)

The specified nominal torque is based on sufficient stiffness of mating parts (Pg. 22)

and refers to the integrated insert element, not the key way.

Rotation speed n for series FKNN (without seals) = insert element's inherent speed (Pg. 57)

Rotation speed n for series FKNN 2RS (with seals) = speed difference of mating parts.