

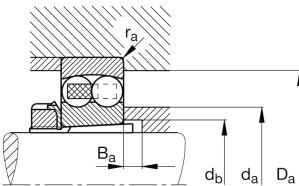
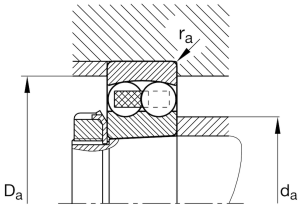
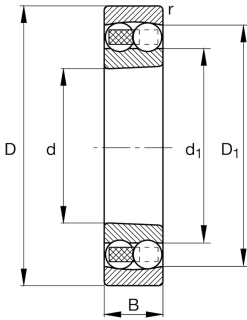
FAG

### 1313-K-TVH-C3 [🔗](#)

Self-aligning ball bearing

Self-aligning ball bearing 13...-K-TVH, tapered bore taper 1:12, plastic cage

## Technical information



### Your current product variant

|                           |              |                                                         |
|---------------------------|--------------|---------------------------------------------------------|
| Bore type                 | K            | Tapered, taper 1:12                                     |
| Sealing                   | Without      | Not sealed                                              |
| Cage                      | TVH          | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class           | PN           | Normal (PN)                                             |
| Lubricant                 | Without      | Bearing not greased                                     |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN                       |

### Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 65 mm       | Bore diameter                     |
| D               | 140 mm      | Outside diameter                  |
| B               | 33 mm       | Width                             |
| C <sub>r</sub>  | 63,000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 22,900 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1,420 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5,200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5,100 1/min | Reference speed                   |
| ≈m              | 2.41 kg     | Weight                            |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 77 mm  | Minimum diameter shaft shoulder       |
| d <sub>a max</sub> | 89 mm  | Maximum diameter shaft shoulder       |
| D <sub>a max</sub> | 128 mm | Maximum diameter of housing shoulder  |
| d <sub>b min</sub> | 70 mm  | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 6 mm   | Minimum cavity width of the sleeve    |
| r <sub>a max</sub> | 2.1 mm | Maximum fillet radius                 |

Dimensions

|                  |          |                              |
|------------------|----------|------------------------------|
| r <sub>min</sub> | 2.1 mm   | Minimum chamfer dimension    |
| D <sub>1</sub>   | 118.2 mm | Shoulder diameter outer ring |
| d <sub>1</sub>   | 92.68 mm | Shoulder diameter inner ring |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0.23 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2.74 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4.25 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2.88 | Static axial load factor                                                         |

Additional information

|      |                |
|------|----------------|
| H313 | Adapter sleeve |
|------|----------------|



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment