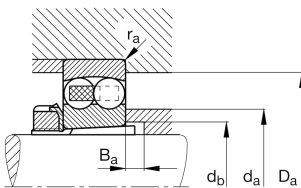
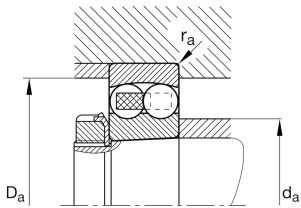
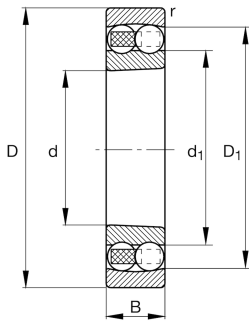


**FAG****2305-K-TVH-C3**

Self-aligning ball bearing

Self-aligning ball bearing 23...-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 polyamide PA66 |
| Tolerance class           | PN           | Normal (ISO 492:2023)                                    |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN                        |
| Lubricant                 | Without      | Bearing not greased                                      |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 25 mm        | Bore diameter                     |
| D               | 62 mm        | Outside diameter                  |
| B               | 24 mm        | Width                             |
| C <sub>r</sub>  | 25.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 6.600 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 420 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 12.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 11.900 1/min | Reference speed                   |
| ≈m              | 327 g        | Weight                            |



### Mounting dimensions

|              |       |                                       |
|--------------|-------|---------------------------------------|
| $d_{a \min}$ | 32 mm | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 34 mm | Maximum diameter shaft shoulder       |
| $D_{a \max}$ | 55 mm | Maximum diameter of housing shoulder  |
| $d_{b \min}$ | 30 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 5 mm  | Minimum cavity width of the sleeve    |
| $r_{a \max}$ | 1 mm  | Maximum fillet radius                 |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1,1 mm   | Minimum chamfer dimension    |
| $D_1$      | 49,86 mm | Shoulder diameter outer ring |
| $d_1$      | 35,45 mm | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,48 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,32 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,04 | Dynamic axial load factor                                                            |
| $Y_0$ | 1,38 | Static axial load factor                                                             |

### Additional information

H2305

Adapter sleeve



## Characteristics

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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