

**FAG****2205-K-2RS-TVH-C3**

Self-aligning ball bearing

Self-aligning ball bearing 22..-K-2RS-TVH,  
tapered bore taper 1:12, seals, plastic cage

## Technical information

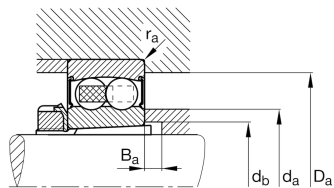
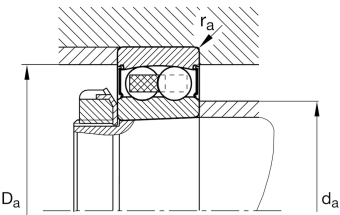


## Your current product variant

|                           |              |  |
|---------------------------|--------------|--|
| Bore type                 | K            | Tapered, taper 1:12                                      |
| Sealing                   | 2RS          | Contact seal on both sides                               |
| 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                 | GA14         | Ball bearing grease, low noise                           |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 25 mm       | Bore diameter                     |
| D           | 52 mm       | Outside diameter                  |
| B           | 18 mm       | Width                             |
| $C_r$       | 12,300 N    | Basic dynamic load rating, radial |
| $C_{0r}$    | 3,300 N     | Basic static load rating, radial  |
| $C_{ur}$    | 209 N       | Fatigue load limit, radial        |
| $n_G$       | 8,500 1/min | Limiting speed                    |
| $\approx m$ | 0.16 kg     | Weight                            |





### Mounting dimensions

|              |         |                                       |
|--------------|---------|---------------------------------------|
| $d_{a \min}$ | 30.6 mm | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 32 mm   | Maximum diameter shaft shoulder       |
| $D_{a \max}$ | 46.4 mm | Maximum diameter of housing shoulder  |
| $d_{b \min}$ | 28 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 mm      | Minimum chamfer dimension    |
| $D_1$      | 43.596 mm | Shoulder diameter outer ring |
| $D_2$      | 45.27 mm  | Caliber diameter outer ring  |
| $d_1$      | 32.9 mm   | Shoulder diameter inner ring |
| $d_2$      | 30.7 mm   | Caliber diameter inner ring  |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -20 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |

### Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0.27 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2.36 | Dynamic axial load factor  |
| $Y_2$ | 3.65 | Dynamic axial load factor  |
| $Y_0$ | 2.47 | Static axial load factor   |

### Additional information






H305

Adapter sleeve



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides
-  Static angular error and misalignment
-  Dynamic angular error and misalignment