

**FAG****1211-K-TVH-C3**

Self-aligning ball bearing

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

## Technical information

**Main Dimensions & Performance Data**

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 55 mm       | Bore diameter                     |
| D           | 100 mm      | Outside diameter                  |
| B           | 21 mm       | Width                             |
| $C_r$       | 27.000 N    | Basic dynamic load rating, radial |
| $C_{0r}$    | 10.000 N    | Basic static load rating, radial  |
| $C_{ur}$    | 630 N       | Fatigue load limit, radial        |
| $n_G$       | 7.700 1/min | Limiting speed                    |
| $n_{gr}$    | 6.900 1/min | Reference speed                   |
| $\approx m$ | 0,664 kg    | Weight                            |

**Mounting dimensions**

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 64 mm  | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 69 mm  | Maximum diameter shaft shoulder       |
| $D_{a \max}$ | 91 mm  | Maximum diameter of housing shoulder  |
| $d_{b \min}$ | 60 mm  | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 6 mm   | Minimum cavity width of the sleeve    |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius                 |

**Dimensions**

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1,5 mm   | Minimum chamfer dimension    |
| $D_1$      | 86,44 mm | Shoulder diameter outer ring |
| $d_1$      | 69,5 mm  | Shoulder diameter inner ring |

**Temperature range**

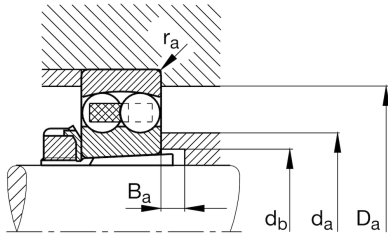
|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |



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25.04.2024, 10:32:52 CEST

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### Calculation factors

|       |      |  |
|-------|------|--|
| e     | 0,19 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 3,32 | Dynamic axial load factor  |
| $Y_2$ | 5,15 | Dynamic axial load factor  |
| $Y_0$ | 3,48 | Static axial load factor   |

### Additional information

|      |                |
|------|----------------|
| H211 | Adapter sleeve |
|------|----------------|