

FAG

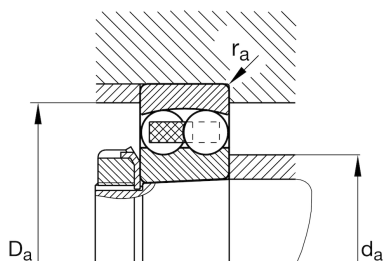
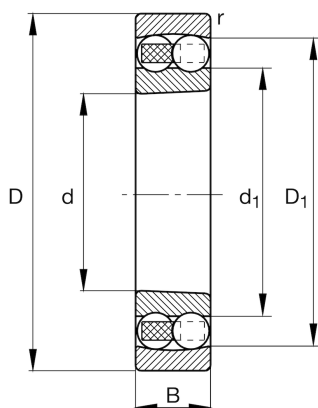
## ★ 1306-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:  
0389035120030Self-aligning ball bearing 13..-K-TVH,  
tapered bore taper 1:12, plastic cage

★ Preferred product

## Technical information



## Main Dimensions &amp; Performance Data

|            |              |                                   |
|------------|--------------|-----------------------------------|
| d          | 30 mm        | Bore diameter                     |
| D          | 72 mm        | Outside diameter                  |
| B          | 19 mm        | Width                             |
| $r_{\min}$ | 1,1 mm       | Minimum chamfer dimension         |
| $C_r$      | 21.700 N     | Basic dynamic load rating, radial |
| $C_{0r}$   | 6.300 N      | Basic static load rating, radial  |
| $C_{ur}$   | 400 N        | Fatigue load limit, radial        |
| $n_G$      | 11.100 1/min | Limiting speed                    |
| $n_{gr}$   | 8.700 1/min  | Reference speed                   |
|            | 0,379 kg     | Weight                            |

## Dimensions

|       |         |                              |
|-------|---------|------------------------------|
| $D_1$ | 58,9 mm | Shoulder diameter outer ring |
| $d_1$ | 45,1 mm | Shoulder diameter inner ring |

## Mounting dimensions

|             |       |                                       |
|-------------|-------|---------------------------------------|
| $d_{a\min}$ | 37 mm | Minimum diameter shaft shoulder       |
| $d_{a\max}$ | 42 mm | Maximum diameter shaft shoulder       |
| $D_{a\max}$ | 65 mm | Maximum diameter of housing shoulder  |
| $d_{b\min}$ | 33 mm | Minimum cavity diameter of the sleeve |
| $B_{a\min}$ | 6 mm  | Minimum cavity width of the sleeve    |
| $r_{a\max}$ | 1 mm  | Maximum fillet radius                 |

## Calculation factors

|       |      |  |
|-------|------|--|
| e     | 0,26 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,41 | Dynamic axial load factor  |
| $Y_2$ | 3,72 | Dynamic axial load factor  |
| $Y_0$ | 2,52 | Static axial load factor   |

**Temperature range**

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
|            | H306   | Adapter sleeve             |
| $T_{\max}$ | 120 °C | Operating temperature max. |