

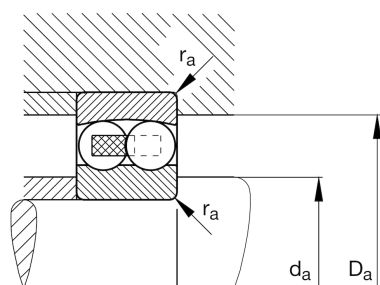
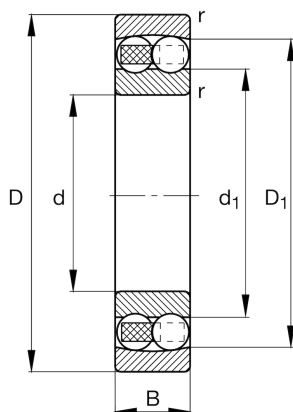
FAG

**2302-TVH**

Self-aligning ball bearing

Schaeffler ID:  
0190065000000Self-aligning ball bearing 23..-TVH, plastic  
cage

## Technical information

**Main Dimensions & Performance Data**

|            |              |                                   |
|------------|--------------|-----------------------------------|
| d          | 15 mm        | Bore diameter                     |
| D          | 42 mm        | Outside diameter                  |
| B          | 17 mm        | Width                             |
| $r_{\min}$ | 1 mm         | Minimum chamfer dimension         |
| $C_r$      | 17.400 N     | Basic dynamic load rating, radial |
| $C_{0r}$   | 3.850 N      | Basic static load rating, radial  |
| $C_{ur}$   | 244 N        | Fatigue load limit, radial        |
| $n_G$      | 17.200 1/min | Limiting speed                    |
| $n_{gr}$   | 15.600 1/min | Reference speed                   |
|            | 0,116 kg     | Weight                            |

**Dimensions**

|       |         |                              |
|-------|---------|------------------------------|
| $D_1$ | 34,4 mm | Shoulder diameter outer ring |
| $d_1$ | 22,5 mm | Shoulder diameter inner ring |

**Mounting dimensions**

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 20,6 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 36,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm    | Maximum fillet radius                |

**Calculation factors**

|       |      |   |
|-------|------|---|
| e     | 0,43 | Limiting value of $F_a/F_r$ for the applicability of<br>diff. Values of factors X and Y |
| $Y_1$ | 1,47 | Dynamic axial load factor   |
| $Y_2$ | 2,28 | Dynamic axial load factor   |
| $Y_0$ | 1,54 | Static axial load factor  |

**Temperature range**

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