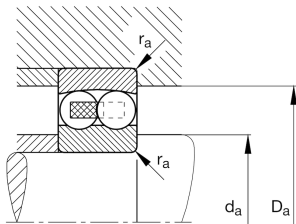
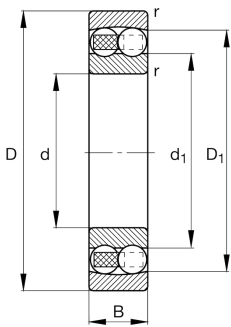


**FAG****2310-TVH**

Self-aligning ball bearing

Self-aligning ball bearing 23..-TVH, plastic cage

## Technical information



## Your current product variant

|                           |              |                                                          |
|---------------------------|--------------|----------------------------------------------------------|
| Bore type                 | Z            | Cylindrical                                              |
| 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 | CN (Group N) | Normal internal clearance                                |
| Lubricant                 | Without      | Bearing not greased                                      |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 50 mm       | Bore diameter                     |
| D               | 110 mm      | Outside diameter                  |
| B               | 40 mm       | Width                             |
| C <sub>r</sub>  | 66.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 20.200 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.280 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 7.600 1/min | Reference speed                   |
| ≈m              | 1,622 kg    | Weight                            |

## Mounting dimensions

|                    |       |                                      |
|--------------------|-------|--------------------------------------|
| d <sub>a min</sub> | 61 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 99 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2 mm  | Maximum fillet radius                |



Dimensions

|           |          |                              |
|-----------|----------|------------------------------|
| $r_{min}$ | 2 mm     | Minimum chamfer dimension    |
| $D_1$     | 91,44 mm | Shoulder diameter outer ring |
| $d_1$     | 65,86 mm | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,43 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,46 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,27 | Dynamic axial load factor                                                            |
| $Y_0$ | 1,53 | Static axial load factor                                                             |

Characteristics

-  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