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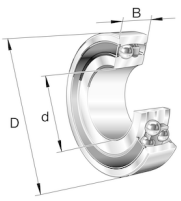


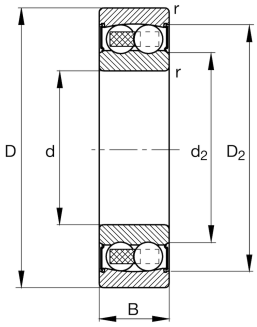

FAG

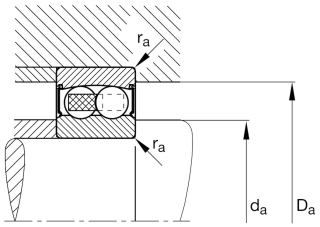
# 2304-2RS-TVH

Self-aligning ball bearing

Self-aligning ball bearing 23..-2RS-TVH, seals, plastic cage

## Technical information




### Your current product variant

| | | |
|---|---|---|
| Bore type | Z | Cylindrical |
| 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 | CN (Group N) | Normal internal clearance |
| Lubricant | GA14 | Ball bearing grease, low noise |

### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 20 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| B | 21 mm | Width |
| $C_r$ | 12.700 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 3.350 N | Basic static load rating, radial |
| $C_{ur}$ | 212 N | Fatigue load limit, radial |
| $n_G$ | 9.400 1/min | Limiting speed |
| ≈m | 0,212 kg | Weight |

### Mounting dimensions

| | | |
|---|---|---|
| $d_{a\ min}$ | 27 mm | Minimum diameter shaft shoulder |
| $D_{a\ max}$ | 45 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1 mm | Maximum fillet radius |

## Dimensions

| | | |
|---|---|---|
| $r_{min}$ | 1,1 mm | Minimum chamfer dimension |
| $D_1$ | 41,59 mm | Shoulder diameter outer ring |
| $D_2$ | 44,37 mm | Caliber diameter outer ring |
| $d_1$ | 31,5 mm | Shoulder diameter inner ring |
| $d_2$ | 27,2 mm | Caliber diameter inner ring |

## Temperature range

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

## Calculation factors

| | | |
|---|---|---|
| e | 0,29 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,16 | Dynamic axial load factor |
| $Y_2$ | 3,34 | Dynamic axial load factor |
| $Y_0$ | 2,26 | Static axial load factor |

## Characteristics

- 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