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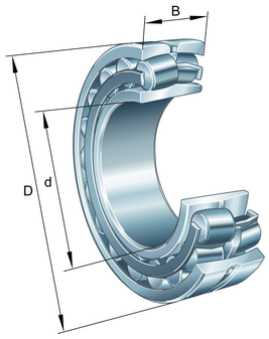



FAG

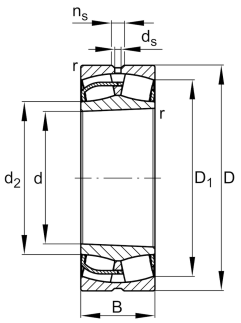
# 23052-BE-XL-K

Spherical Roller Bearing

Spherical roller bearings 230..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

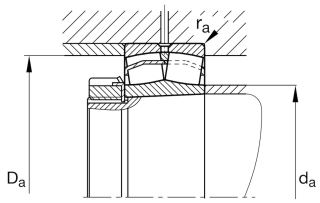
X-life

## Technical information




### Your current product variant

| | | |
|---|---|---|
| Design | BE | with lose center lip ring |
| Bore type | K | Tapered, taper 1:12 |
| Cage | JPB | Sheet metal cage |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication feature | Standard | |




### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 260 mm | Bore diameter |
| D | 400 mm | Outside diameter |
| B | 104 mm | Width |
| $C_r$ | 1,670,000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 2,600,000 N | Basic static load rating, radial |
| $C_{ur}$ | 239,000 N | Fatigue load limit, radial |
| $n_G$ | 1,850 1/min | Limiting speed |
| $n_{\vartheta r}$ | 1,170 1/min | Reference speed |
| ≈m | 45.25 kg | Weight |

## Mounting dimensions

| | | |
|---|---|---|
| $d_{a\ min}$ | 274.6 mm | Minimum diameter shaft shoulder |
| $d_{a\ max}$ | 291 mm | Maximum diameter of shaft shoulder |
| $D_{a\ max}$ | 385.4 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 3 mm | Maximum recess radius |
| $d_{b\ min}$ | 272 mm | Minimum cavity diameter of the sleeve |
| $B_{a\ min}$ | 13 mm | Minimum cavity width of the sleeve |

## Dimensions

| | | |
|---|---|---|
| $r_{min}$ | 4 mm | Minimum chamfer dimension |
| $D_1$ | 358.7 mm | Bore diameter outer ring |
| $d_2$ | 295.5 mm | Raceway diameter of the inner ring |
| $d_s$ | 9.5 mm | Diameter lubrication hole |
| $n_s$ | 17.7 mm | Width of lubricating groove |

## Temperature range

| | | |
|---|---|---|
| $T_{min}$ | -30 °C | Operating temperature min. |
| $T_{max}$ | 200 °C | Operating temperature max. |

## Calculation factors

| | | |
|---|---|---|
| e | 0.23 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2.9 | Dynamic axial load factor |
| $Y_2$ | 4.31 | Dynamic axial load factor |
| $Y_0$ | 2.83 | Static axial load factor |

## Additional information

| | | |
|---|---|---|
| | H3052X | Adapter sleeve |
| | AH3052 | Withdrawal sleeve |

## Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Large bearing


Static angular error and misalignment


Dynamic angular error and misalignment