

FAG

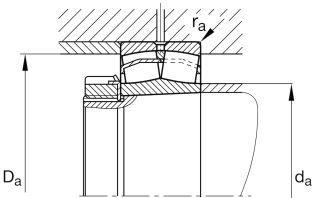
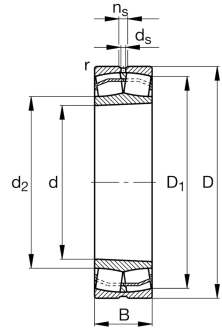
X-life

22312-E1-XL-K-C3

Spherical Roller Bearing

Spherical roller bearings 223...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information



Your current product variant

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E1           | without central rip               |
| Bore type                 | K            | Tapered, taper 1:12               |
| Cage                      | JPA          | Sheet metal cage                  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication feature     | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 60 mm       | Bore diameter                     |
| D               | 130 mm      | Outside diameter                  |
| B               | 46 mm       | Width                             |
| C <sub>r</sub>  | 310,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 310,000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 29,000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5,400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4,200 1/min | Reference speed                   |
| ≈m              | 2.7 kg      | Weight                            |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 72 mm  | Minimum diameter shaft shoulder       |
| d <sub>a max</sub> | 74 mm  | Maximum diameter of shaft shoulder    |
| D <sub>a max</sub> | 118 mm | Maximum diameter of housing shoulder  |
| r <sub>a max</sub> | 2.1 mm | Maximum recess radius                 |
| d <sub>b min</sub> | 66 mm  | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 5 mm   | Minimum cavity width of the sleeve    |

Dimensions

|                  |          |                                    |
|------------------|----------|------------------------------------|
| r <sub>min</sub> | 2.1 mm   | Minimum chamfer dimension          |
| D <sub>1</sub>   | 110.1 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 74.8 mm  | Raceway diameter of the inner ring |
| d <sub>s</sub>   | 3.2 mm   | Diameter lubrication hole          |
| n <sub>s</sub>   | 6.5 mm   | Width of lubricating groove        |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 200 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0.35 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 1.91 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 2.85 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 1.87 | Static axial load factor                                                         |

Additional information

|         |                   |
|---------|-------------------|
| H2312   | Adapter sleeve    |
| AHX2312 | Withdrawal sleeve |



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