



FAG

**23248-BE-XL-K-C3**

## Spherical Roller Bearing

Spherical roller bearings 232...-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 | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication facility    | Standard     |                                   |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 240 mm      | Bore diameter                     |
| D           | 440 mm      | Outside diameter                  |
| B           | 160 mm      | Width                             |
| $C_r$       | 2.850.000 N | Basic dynamic load rating, radial |
| $C_{0r}$    | 4.000.000 N | Basic static load rating, radial  |
| $C_{ur}$    | 315.000 N   | Fatigue load limit, radial        |
| $n_G$       | 1.500 1/min | Limiting speed                    |
| $n_{gr}$    | 770 1/min   | Reference speed                   |
| $\approx m$ | 101,895 kg  | Weight                            |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 257 mm | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 284 mm | Maximum diameter of shaft shoulder    |
| $D_{a \max}$ | 423 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 3 mm   | Maximum recess radius                 |
| $d_{b \min}$ | 257 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 6 mm   | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 4 mm     | Minimum chamfer dimension          |
| $D_1$      | 370,8 mm | Bore diameter outer ring           |
| $d_2$      | 280,8 mm | Raceway diameter of the inner ring |
| $d_s$      | 12,5 mm  | Diameter lubrication hole          |
| $n_s$      | 23,5 mm  | Width of lubricating groove        |

### Temperature range

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

### Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0,36 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,87 | Dynamic axial load factor  |
| $Y_2$ | 2,79 | Dynamic axial load factor  |
| $Y_0$ | 1,83 | Static axial load factor   |

### Additional information

|        |                   |
|--------|-------------------|
| H2348X | Adapter sleeve    |
| AH2348 | 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