

FAG

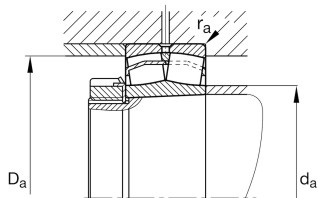
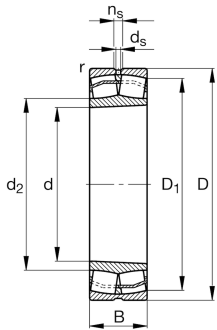
X-life

**22212-E1-XL-K**

## Spherical Roller Bearing

Spherical roller bearings 222...-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 | CN (Group N) | Normal internal clearance |
| Relubrication facility    | Standard     |                           |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 60 mm       | Bore diameter                     |
| D               | 110 mm      | Outside diameter                  |
| B               | 28 mm       | Width                             |
| C <sub>r</sub>  | 160.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 155.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 20.700 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 8.100 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.550 1/min | Reference speed                   |
| ≈m              | 1,078 kg    | Weight                            |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 69 mm  | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 71 mm  | Maximum diameter of shaft shoulder    |
| $D_{a \max}$ | 101 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 1,5 mm | Maximum recess radius                 |
| $d_{b \min}$ | 65 mm  | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 8 mm   | Minimum cavity width of the sleeve    |

### Dimensions

|            |         |                                    |
|------------|---------|------------------------------------|
| $r_{\min}$ | 1,5 mm  | Minimum chamfer dimension          |
| $D_1$      | 98,7 mm | Bore diameter outer ring           |
| $d_2$      | 71,6 mm | Raceway diameter of the inner ring |
| $d_s$      | 3,2 mm  | Diameter lubrication hole          |
| $n_s$      | 6,5 mm  | Width of lubricating groove        |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,23 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,98 | Dynamic axial load factor                                                            |
| $Y_2$ | 4,44 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,92 | Static axial load factor                                                             |

### Additional information

|        |                   |
|--------|-------------------|
| H312   | Adapter sleeve    |
| AHX312 | 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