



FAG

22210-E1-XL-K-C3

Spherical Roller Bearing

Spherical roller bearings 222...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| 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             | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 50 mm       | Bore diameter                     |
| D               | 90 mm       | Outside diameter                  |
| B               | 23 mm       | Width                             |
| C <sub>r</sub>  | 109.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 107.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 14.600 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.100 1/min | Reference speed                   |
| ≈m              | 0,585 kg    | Masa                              |



### Mounting dimensions

|              |       |                                       |
|--------------|-------|---------------------------------------|
| $d_{a \min}$ | 57 mm | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 59 mm | Maximum diameter of shaft shoulder    |
| $D_{a \max}$ | 83 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 1 mm  | Maximum recess radius                 |
| $d_{b \min}$ | 55 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 10 mm | Minimum cavity width of the sleeve    |

### Dimensions

|            |         |                                    |
|------------|---------|------------------------------------|
| $r_{\min}$ | 1,1 mm  | Minimum chamfer dimension          |
| $D_1$      | 80,8 mm | Bore diameter outer ring           |
| $d_2$      | 59,9 mm | Raceway diameter of the inner ring |
| $d_s$      | 3,2 mm  | Diameter lubrication hole          |
| $n_s$      | 4,8 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 |
| $Y_1$ | 2,95 | Dynamic axial load factor                                                            |
| $Y_2$ | 4,4  | Dynamic axial load factor                                                            |
| $Y_0$ | 2,89 | Static axial load factor                                                             |

### Additional information

|        |                   |
|--------|-------------------|
| H310   | Adapter sleeve    |
| AHX310 | Withdrawal sleeve |



## Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Nieosiowość statyczna



Nieosiowość dynamiczna