



FAG

**22311-E1-XL-C3**

## Spherical Roller Bearing

Spherical roller bearings 223...-E1, main dimensions to DIN 635-2

X-life

## Informacje techniczne



## Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E1           | Without central rip               |
| Bore type                 | Z            | Cylindrical                       |
| Cage                      | JPA          | Sheet metal cage                  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication feature     | Standard     |                                   |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 55 mm       | Bore diameter                     |
| D               | 120 mm      | Outside diameter                  |
| B               | 43 mm       | Width                             |
| C <sub>r</sub>  | 265.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 260.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 24.600 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.500 1/min | Reference speed                   |
| ≈m              | 2,354 kg    | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 66 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 109 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 2 mm   | Maximum recess radius                |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension          |
| $D_1$      | 101,4 mm | Bore diameter outer ring           |
| $d_2$      | 68,9 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

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,36 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,89 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,81 | Dynamic axial load factor                                                            |
| $Y_0$ | 1,84 | Static axial load factor                                                             |



## Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia
-  Nieosiowość statyczna
-  Nieosiowość dynamiczna