

**FAG****22210-E1-XL-H40**

## Spherical Roller Bearing

Spherical roller bearing 222...-E1-XL-H40,  
symmetric with cage guidance ring

**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 | CN (Group N) | Normal internal clearance            |
| Relubrication             | H40          | Without lubricating groove and holes |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 50 mm       | Bore diameter                     |
| D           | 90 mm       | Outside diameter                  |
| B           | 23 mm       | Width                             |
| $C_r$       | 109.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$    | 107.000 N   | Basic static load rating, radial  |
| $C_{ur}$    | 14.600 N    | Fatigue load limit, radial        |
| $n_G$       | 9.800 1/min | Limiting speed                    |
| $n_{gr}$    | 5.100 1/min | Reference speed                   |
| $\approx m$ | 0,656 kg    | Masa                              |

## Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 57 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 83 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm  | Maximum recess radius                |



Dimensions

|                  |         |                                    |
|------------------|---------|------------------------------------|
| r <sub>min</sub> | 1,1 mm  | Minimum chamfer dimension          |
| D <sub>1</sub>   | 80,8 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 59,9 mm | Raceway diameter of the inner ring |

Temperature range

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

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,23 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,95 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4,4  | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,89 | Static axial load factor                                                         |

Właściwości

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