



FAG

**23040-E1-XL-TVPB-C3**

## Spherical Roller Bearing

Spherical roller bearings 230...-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                      | TVPB         | Plastic cage                      |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication feature     | Standard     |                                   |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 200 mm      | Bore diameter                     |
| D               | 310 mm      | Outside diameter                  |
| B               | 82 mm       | Width                             |
| C <sub>r</sub>  | 1.270.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 1.800.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 206.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 2.330 1/min | Limiting speed                    |
| n <sub>gr</sub> | 1.550 1/min | Reference speed                   |
| ≈m              | 21,276 kg   | Masa                              |



Mounting dimensions

|                    |          |                                      |
|--------------------|----------|--------------------------------------|
| d <sub>a min</sub> | 210,2 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 299,8 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,1 mm   | Maximum recess radius                |

Dimensions

|                  |          |                                    |
|------------------|----------|------------------------------------|
| r <sub>min</sub> | 2,1 mm   | Minimum chamfer dimension          |
| D <sub>1</sub>   | 281,6 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 223,4 mm | Raceway diameter of the inner ring |
| d <sub>s</sub>   | 8 mm     | Diameter lubrication hole          |
| n <sub>s</sub>   | 15 mm    | Width of lubricating groove        |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °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> | 2,9  | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4,31 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,83 | Static axial load factor                                                         |



## Właściwości

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