



FAG

23120-E1A-XL-M-C4

Spherical Roller Bearing

Spherical roller bearings 231...-E1A, main dimensions to DIN 635-2

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E1A          | Without central rip               |
| Bore type                 | Z            | Cylindrical                       |
| Cage                      | M            | Brass Cage                        |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication             | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 100 mm      | Bore diameter                     |
| D               | 165 mm      | Outside diameter                  |
| B               | 52 mm       | Width                             |
| C <sub>r</sub>  | 450.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 570.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 54.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 4.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.750 1/min | Reference speed                   |
| ≈m              | 4,391 kg    | Masa                              |

Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 111 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 154 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2 mm   | Maximum recess radius                |



Dimensions

|                  |          |                             |
|------------------|----------|-----------------------------|
| r <sub>min</sub> | 2 mm     | Minimum chamfer dimension   |
| D <sub>1</sub>   | 146,3 mm | Bore diameter outer ring    |
| d <sub>s</sub>   | 3,2 mm   | Diameter lubrication hole   |
| n <sub>s</sub>   | 6,5 mm   | Width of lubricating groove |

Temperature range

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

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,28 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,37 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 3,53 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,32 | Static axial load factor                                                         |

Właściwości

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