



FAG

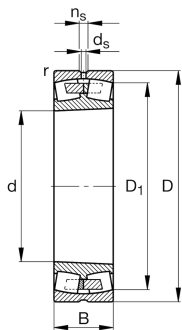
23120-E1A-XL-K-M

Spherical Roller Bearing

Spherical roller bearings 231...E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | E1A          | Without central rip       |
| Bore type                 | K            | Tapered, taper 1:12       |
| Cage                      | M            | Brass Cage                |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication feature     | Standard     |                           |
| Special material          | 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 | 4,262 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                 |
| d <sub>a max</sub> | 115 mm | Maximum diameter of shaft shoulder    |
| d <sub>b min</sub> | 107 mm | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 7 mm   | Minimum cavity width of the sleeve    |

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                                                         |

Additional information

|         |                   |
|---------|-------------------|
| H3120   | Adapter sleeve    |
| AHX3120 | Withdrawal sleeve |



## Właściwości

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