



FAG

24144-BE-XL-K30-C3

Spherical Roller Bearing

Spherical roller bearings 241...-BE-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | BE           | With lose center lip ring         |
| Bore type                 | K30          | Tapered, taper 1:30               |
| Cage                      | JPB          | Sheet metal cage                  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication             | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 220 mm      | Bore diameter                     |
| D               | 370 mm      | Outside diameter                  |
| B               | 150 mm      | Width                             |
| C <sub>r</sub>  | 2.190.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 3.250.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 300.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.650 1/min | Limiting speed                    |
| n <sub>gr</sub> | 750 1/min   | Reference speed                   |
| ≈m              | 62,265 kg   | Masa                              |

Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 237 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 353 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 3 mm   | Maximum recess radius                |



Dimensions

|                  |          |                                    |
|------------------|----------|------------------------------------|
| r <sub>min</sub> | 4 mm     | Minimum chamfer dimension          |
| D <sub>1</sub>   | 314,3 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 247,6 mm | Raceway diameter of the inner ring |
| d <sub>s</sub>   | 6,3 mm   | Diameter lubrication hole          |
| n <sub>s</sub>   | 12,2 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              | 0,39 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 1,74 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 2,59 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 1,7  | Static axial load factor                                                         |

Additional information

|         |                   |
|---------|-------------------|
| AH24144 | Withdrawal sleeve |
|---------|-------------------|



### Właściwości

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