

FAG

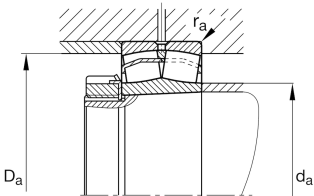
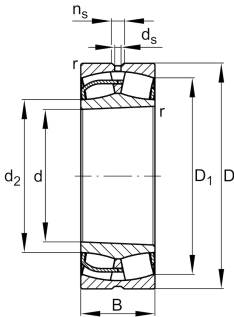
24024-BE-XL-K30-C3

Spherical Roller Bearing

Spherical roller bearings 240...-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 feature     | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 120 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 60 mm       | Width                             |
| C <sub>r</sub>  | 450.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 690.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 86.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 3.450 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.360 1/min | Reference speed                   |
| ≈m              | 5,166 kg    | Masa                              |



Mounting dimensions

|                    |          |                                      |
|--------------------|----------|--------------------------------------|
| d <sub>a min</sub> | 128,8 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 171,2 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>   | 159,8 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 134,5 mm | Raceway diameter of the inner 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              | 0,29 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,33 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 3,47 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,28 | Static axial load factor                                                         |

Additional information

|         |                   |
|---------|-------------------|
| AH24024 | Withdrawal sleeve |
|---------|-------------------|



## Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Nieosiowość statyczna



Nieosiowość dynamiczna