



FAG

24160-BE-XL-H76-W209B

Spherical Roller Bearing

Spherical roller bearing 241...-BE-XL,  
symmetric with rib washer

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | BE           | With lose center lip ring |
| Bore type                 | Z            | Cylindrical               |
| Cage                      | JPB          | Sheet metal cage          |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication             | Standard     |                           |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 300 mm      | Bore diameter                     |
| D               | 500 mm      | Outside diameter                  |
| B               | 200 mm      | Width                             |
| C <sub>r</sub>  | 3.850.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 6.400.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 485.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.100 1/min | Limiting speed                    |
| n <sub>gr</sub> | 450 1/min   | Reference speed                   |
| ≈m              | 156,8 kg    | Masa                              |

Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 320 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 480 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 4 mm   | Maximum recess radius                |



Dimensions

|                  |          |                                    |
|------------------|----------|------------------------------------|
| r <sub>min</sub> | 5 mm     | Minimum chamfer dimension          |
| D <sub>1</sub>   | 422,8 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 338,2 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> | 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> | 1,72 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 2,56 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 1,68 | Static axial load factor                                                         |

Właściwości

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