



FAG

23180-BEA-XL-K-MB1-C3

Spherical Roller Bearing

Spherical roller bearing 231...-BEA-XL-K-MB1, symmetric 2 outer ribs with rib washer

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | BEA          | With lose center lip ring         |
| Bore type                 | K            | Tapered, taper 1:12               |
| Cage                      | MB1          | Solid brass cage                  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication feature     | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 400 mm      | Bore diameter                     |
| D               | 650 mm      | Outside diameter                  |
| B               | 200 mm      | Width                             |
| C <sub>r</sub>  | 5.000.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 8.100.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 590.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 950 1/min   | Limiting speed                    |
| n <sub>gr</sub> | 495 1/min   | Reference speed                   |
| ≈m              | 248 kg      | Masa                              |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 426 mm | Minimum diameter shaft shoulder       |
| D <sub>a max</sub> | 624 mm |                                       |
| r <sub>a max</sub> | 5 mm   | Maximum recess radius                 |
| d <sub>a max</sub> | 457 mm |                                       |
| d <sub>b min</sub> | 421 mm | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 15 mm  | Minimum cavity width of the sleeve    |

Dimensions

|                  |          |                             |
|------------------|----------|-----------------------------|
| r <sub>min</sub> | 6 mm     | Minimum chamfer dimension   |
| D <sub>1</sub>   | 571,4 mm | Bore diameter outer ring    |
| d <sub>s</sub>   | 12,5 mm  | Diameter lubrication hole   |
| n <sub>s</sub>   | 23,5 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 |                           |
| Y <sub>1</sub> | 2,3  | Dynamic axial load factor |
| Y <sub>2</sub> | 3,42 | Dynamic axial load factor |
| Y <sub>0</sub> | 2,25 | Static axial load factor  |

Additional information

|           |                   |
|-----------|-------------------|
| H3180-HG  | Adapter sleeve    |
| AH3180G-H | Withdrawal sleeve |



### Właściwości

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