



FAG

23160-BEA-XL-K-MB1-C4

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 | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication             | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 300 mm      | Bore diameter                     |
| D               | 500 mm      | Outside diameter                  |
| B               | 160 mm      | Width                             |
| C <sub>r</sub>  | 3.250.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 4.950.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 375.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 720 1/min   | Reference speed                   |
| ≈m              | 120,97 kg   | Masa                              |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 320 mm | Minimum diameter shaft shoulder       |
| D <sub>a max</sub> | 480 mm |                                       |
| r <sub>a max</sub> | 4 mm   | Maximum recess radius                 |
| d <sub>a max</sub> | 347 mm |                                       |
| d <sub>b min</sub> | 318 mm | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 12 mm  | Minimum cavity width of the sleeve    |

Dimensions

|                  |          |                             |
|------------------|----------|-----------------------------|
| r <sub>min</sub> | 5 mm     | Minimum chamfer dimension   |
| D <sub>1</sub>   | 436,8 mm | Bore diameter outer ring    |
| d <sub>s</sub>   | 9,5 mm   | Diameter lubrication hole   |
| n <sub>s</sub>   | 17,7 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              | 0,31 |                           |
| Y <sub>1</sub> | 2,18 | Dynamic axial load factor |
| Y <sub>2</sub> | 3,24 | Dynamic axial load factor |
| Y <sub>0</sub> | 2,13 | Static axial load factor  |

Additional information

|         |                   |
|---------|-------------------|
| H3160   | Adapter sleeve    |
| AH3160G | Withdrawal sleeve |



### Właściwości

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