



FAG

23160-BEA-XL-K-MB1-C5

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          |
| 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               | 121 kg      | Masa                              |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 320 mm | Minimum diameter shaft shoulder       |
| $D_{a \max}$ | 480 mm |                                       |
| $r_{a \max}$ | 4 mm   | Maximum recess radius                 |
| $d_{a \max}$ | 347 mm |                                       |
| $d_{b \min}$ | 318 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 12 mm  | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 5 mm     | Minimum chamfer dimension   |
| $D_1$      | 436,8 mm | Bore diameter outer ring    |
| $d_s$      | 9,5 mm   | Diameter lubrication hole   |
| $n_s$      | 17,7 mm  | Width of lubricating groove |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

### Calculation factors

|       |      |                           |
|-------|------|---------------------------|
| $e$   | 0,31 |                           |
| $Y_1$ | 2,18 | Dynamic axial load factor |
| $Y_2$ | 3,24 | Dynamic axial load factor |
| $Y_0$ | 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