



FAG

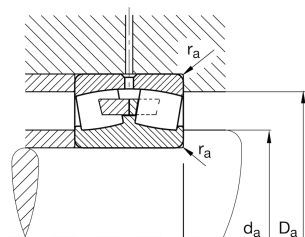
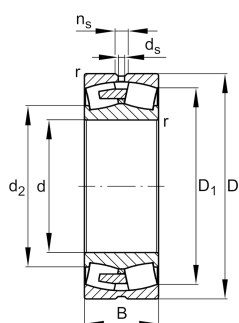
**231/560-BEA-XL-MB1**

Spherical Roller Bearing

Spherical roller bearing 231...-BEA-XL-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                            | Z            | Cylindrical               |
| Cage                                 | MB1          | Solid brass cage          |
| Radial internal clearance            | CN (Group N) | Normal internal clearance |
| Relubrication feature                | Standard     |                           |
| Locating feature, bearing outer ring | Without      |                           |
| Handling thread holes                | Without      |                           |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 560 mm       | Bore diameter                     |
| D               | 920 mm       | Outside diameter                  |
| B               | 280 mm       | Width                             |
| C <sub>r</sub>  | 9.700.000 N  | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 16.400.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.060.000 N  | Fatigue load limit, radial        |
| n <sub>G</sub>  | 630 1/min    | Limiting speed                    |
| n <sub>gr</sub> | 300 1/min    | Reference speed                   |
| m               | 738 kg       | Masa                              |



### Mounting dimensions

|              |        |                                 |
|--------------|--------|---------------------------------|
| $d_{a \min}$ | 592 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 888 mm |                                 |
| $r_{a \max}$ | 6 mm   | Maximum recess radius           |

### Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 7,5 mm   | Minimum chamfer dimension   |
| $D_1$      | 806,6 mm | Bore diameter outer ring    |
| $d_s$      | 12,5 mm  | Diameter lubrication hole   |
| $n_s$      | 23,5 mm  | Width of lubricating groove |

### Temperature range

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

### Calculation factors

|       |      |                           |
|-------|------|---------------------------|
| $e$   | 0,29 |                           |
| $Y_1$ | 2,32 | Dynamic axial load factor |
| $Y_2$ | 3,45 | Dynamic axial load factor |
| $Y_0$ | 2,26 | 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