

FAG

## 23096-BEA-XL-MB1

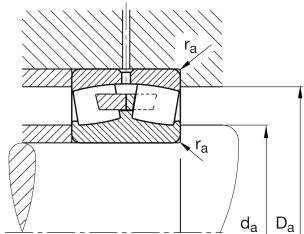
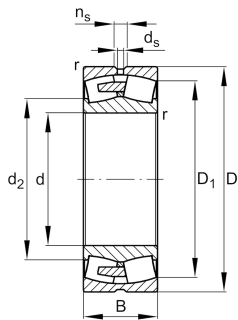
Spherical Roller Bearing

Spherical roller bearing 230...-BEA-XL-MB1,  
symmetric 2 outer ribs with rib washer

Materiálové číslo Schaeffler:  
0940700320000

X-life

### Technické informace



#### Vaše aktuální varianta 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     |                           |

#### Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 480 mm      | Bore diameter                     |
| D               | 700 mm      | Outside diameter                  |
| B               | 165 mm      | Width                             |
| C <sub>r</sub>  | 4.450.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 8.000.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 640.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 950 1/min   | Limiting speed                    |
| n <sub>gr</sub> | 550 1/min   | Reference speed                   |
| ≈m              | 212 kg      | Hmotnost                          |

#### Mounting dimensions

|                    |        |                                 |
|--------------------|--------|---------------------------------|
| d <sub>a min</sub> | 503 mm | Minimum diameter shaft shoulder |
| D <sub>a max</sub> | 677 mm |                                 |
| r <sub>a max</sub> | 5 mm   | Maximum recess radius           |



Dimensions

|           |          |                             |
|-----------|----------|-----------------------------|
| $r_{min}$ | 6 mm     | Minimum chamfer dimension   |
| $D_1$     | 637,3 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

|       |      |                           |
|-------|------|---------------------------|
| $e$   | 0,21 |                           |
| $Y_1$ | 3,27 | Dynamic axial load factor |
| $Y_2$ | 4,87 | Dynamic axial load factor |
| $Y_0$ | 3,2  | Static axial load factor  |

Vlastnosti

|                                                                                     |                                    |
|-------------------------------------------------------------------------------------|------------------------------------|
|  | Radiální zatížení                  |
|  | Axiální zatížení v jednom směru    |
|  | Axiální zatížení ve dvou směrech   |
|  | Mazání (plastickým) mazivem        |
|  | Mazání olejem                      |
|  | Neutěsněné                         |
|  | Velké ložisko                      |
|  | Statická úhlová chyba a vychýlení  |
|  | Dynamická úhlová chyba a vychýlení |