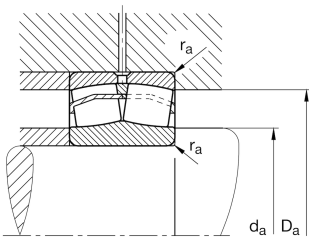
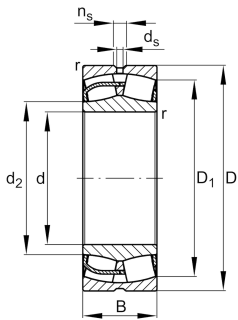


**FAG****24160-BE-XL**

## Spherical Roller Bearing

Spherical roller bearing 241...-BE-XL,  
symmetric with rib washer**X-life**

## Technical information



## Your current product variant

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | BE           | With lose center lip ring |
| Bore type                 | Z            | Cylindrical               |
| Cage                      | JPB          | Sheet metal cage          |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication             | Standard     |                           |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 300 mm      | Bore diameter                     |
| D           | 500 mm      | Outside diameter                  |
| B           | 200 mm      | Width                             |
| $C_r$       | 3.950.000 N | Basic dynamic load rating, radial |
| $C_{0r}$    | 6.400.000 N | Basic static load rating, radial  |
| $C_{ur}$    | 500.000 N   | Fatigue load limit, radial        |
| $n_G$       | 1.100 1/min | Limiting speed                    |
| $n_{gr}$    | 450 1/min   | Reference speed                   |
| $\approx m$ | 155,72 kg   | Weight                            |

## Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 320 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 480 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm   | Maximum recess radius                |



Dimensions

|           |          |                                    |
|-----------|----------|------------------------------------|
| $r_{min}$ | 5 mm     | Minimum chamfer dimension          |
| $D_1$     | 422,8 mm | Bore diameter outer ring           |
| $d_2$     | 338,2 mm | Raceway diameter of the inner ring |
| $d_s$     | 8 mm     | Diameter lubrication hole          |
| $n_s$     | 15 mm    | Width of lubricating groove        |

Temperature range

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

Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,39 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,72 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,56 | Dynamic axial load factor                                                            |
| $Y_0$ | 1,68 | Static axial load factor                                                             |

Characteristics

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|  | Radial load                            |
|  | Axial load in one direction            |
|  | Axial load in two directions           |
|  | Grease Lubrication                     |
|  | Oil Lubrication                        |
|  | Not sealed                             |
|  | Large bearing                          |
|  | Static angular error and misalignment  |
|  | Dynamic angular error and misalignment |