



FAG

**24080-BEA-XL-K30-MB1**

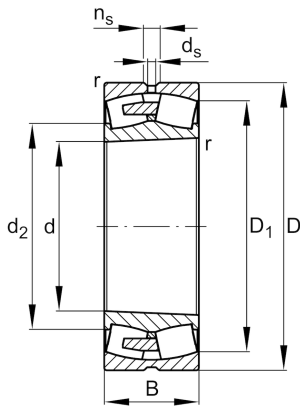
Spherical roller bearing

Schaeffler ID:  
0868822950000

Spherical roller bearings 240..-BEA-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

## Technical information



## Temperature range

|           |           |                            |
|-----------|-----------|----------------------------|
| $T_{min}$ | -30 °C    | Operating temperature min. |
| $T_{max}$ | 200 °C    | Operating temperature max. |
|           | 194,12 kg | Weight                     |

## Main Dimensions &amp; Performance Data

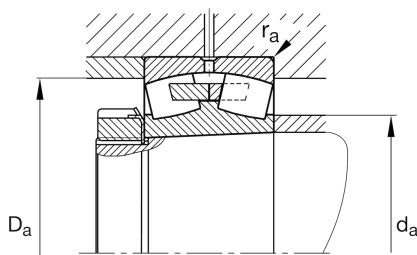
|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 400 mm      | Bore diameter                     |
| D        | 600 mm      | Outside diameter                  |
| B        | 200 mm      | Width                             |
| $C_r$    | 4.500.000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 8.100.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 680.000 N   | Fatigue load limit, radial        |
| $n_G$    | 920 1/min   | Limiting speed                    |
| $n_{gr}$ | 495 1/min   | Reference speed                   |

## Dimensions

|           |          |                             |
|-----------|----------|-----------------------------|
| $r_{min}$ | 5 mm     | Minimum chamfer dimension   |
| $D_1$     | 529,4 mm | Bore diameter outer ring    |
| $d_s$     | 12,5 mm  | Diameter lubrication hole   |
| $n_s$     | 23,5 mm  | Width of lubricating groove |

## Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a min}$ | 418 mm | Minimum diameter shaft shoulder      |
| $D_{a max}$ | 582 mm | Maximum diameter of housing shoulder |
| $r_{a max}$ | 4 mm   | Maximum recess radius                |



**Additional information**

|                |           |  |
|----------------|-----------|--|
| e              | 0,3       | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,23      | Dynamic axial load factor  |
|                | AH24080-H | Withdrawal sleeve  |
| Y <sub>2</sub> | 3,32      | Dynamic axial load factor  |
| Y <sub>0</sub> | 2,18      | Static axial load factor   |