

FAG

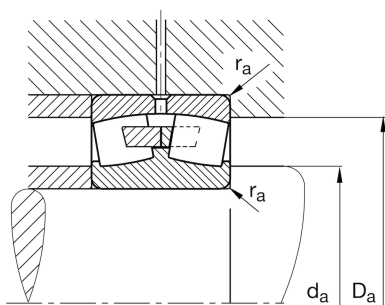
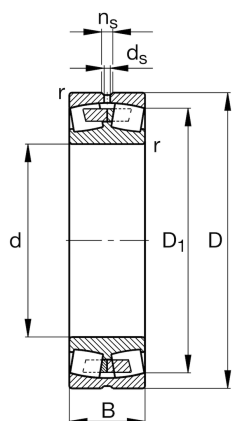
## 23132-E1A-XL-M-C3&gt;A

## Spherical Roller Bearing

Schaeffler ID:  
0933314790030Spherical roller bearings 231...-E1A, main  
dimensions to DIN 635-2

X-life

## Technical information



## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 160 mm      | Bore diameter                     |
| D           | 270 mm      | Outside diameter                  |
| B           | 86 mm       | Width                             |
| $C_r$       | 1,160,000 N | Basic dynamic load rating, radial |
| $C_{0r}$    | 1,550,000 N | Basic static load rating, radial  |
| $C_{ur}$    | 166,000 N   | Fatigue load limit, radial        |
| $n_G$       | 2,490 1/min | Limiting speed                    |
| $n_{gr}$    | 1,560 1/min | Reference speed                   |
| $\approx m$ | 19.857 kg   | Weight                            |

## Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 172 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 258 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2.1 mm | Maximum recess radius                |

## Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 2.1 mm   | Minimum chamfer dimension   |
| $D_1$      | 238.3 mm | Bore diameter outer 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              | 0.29 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2.32 | Dynamic axial load factor  |
| Y <sub>2</sub> | 3.45 | Dynamic axial load factor  |
| Y <sub>0</sub> | 2.26 | Static axial load factor   |