

FAG

X-life

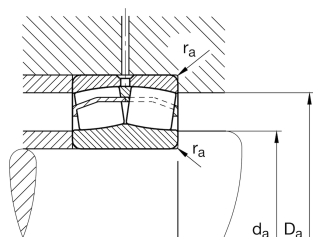
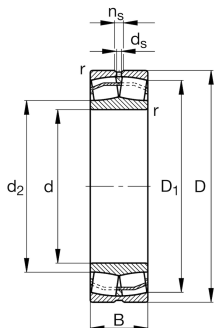
**23224-E1-XL-TVPB** 

## Spherical Roller Bearing

Spherical roller bearings 232...-E1, main dimensions to DIN 635-2

Materiálové číslo Schaeffler:  
0190016060000

## Technické informace



## Vaše aktuální varianta produktu

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | E1           | Without central rip       |
| Bore type                 | Z            | Cylindrical               |
| Cage                      | TVPB         | Plastic cage              |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication feature     | Standard     |                           |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 120 mm      | Bore diameter                     |
| D               | 215 mm      | Outside diameter                  |
| B               | 76 mm       | Width                             |
| C <sub>r</sub>  | 820.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 1.020.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 82.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 3.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 1.910 1/min | Reference speed                   |
| m               | 11,179 kg   | Hmotnost                          |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 132 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 203 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum recess radius                |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 2,1 mm   | Minimum chamfer dimension          |
| $D_1$      | 185,5 mm | Bore diameter outer ring           |
| $d_2$      | 139 mm   | Raceway diameter of the inner ring |
| $d_s$      | 4,8 mm   | Diameter lubrication hole          |
| $n_s$      | 9,5 mm   | Width of lubricating groove        |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,33 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,03 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,02 | Dynamic axial load factor                                                            |
| $Y_0$ | 1,98 | Static axial load factor                                                             |



## Vlastnosti



Radiální zatížení



Axiální zatížení v jednom směru



Axiální zatížení ve dvou směrech



Mazání (plastickým mazivem)



Mazání olejem



Neutěsněné



Statická úhlová chyba a vychýlení



Dynamická úhlová chyba a vychýlení