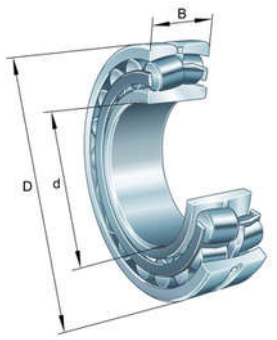
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FAG

X-life

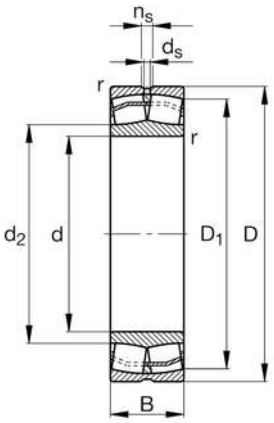
# 22214-E1-XL-C3

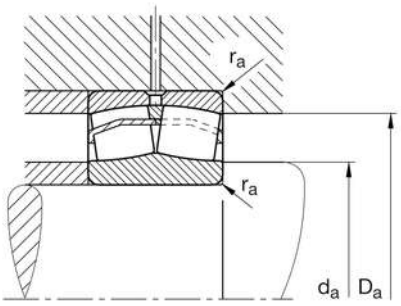
Spherical roller bearing

Schaeffler ID:
0167038390030

Spherical roller bearings 222..-E1, main dimensions to DIN 635-2

## Technical information




### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 70 mm | Bore diameter |
| D | 125 mm | Outside diameter |
| B | 31 mm | Width |
| $C_r$ | 211,000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 226,000 N | Basic static load rating, radial |
| $C_{ur}$ | 28,500 N | Fatigue load limit, radial |
| $n_G$ | 6,700 1/min | Limiting speed |
| $n_{\vartheta r}$ | 3,950 1/min | Reference speed |
| | 1.6 kg | Weight |

### Mounting dimensions

| | | |
|---|---|---|
| $d_{a\ min}$ | 79 mm | Minimum diameter shaft shoulder |
| $D_{a\ max}$ | 116 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1.5 mm | Maximum recess radius |

### Dimensions

| | | |
|---|---|---|
| $r_{min}$ | 1.5 mm | Minimum chamfer dimension |
| $D_1$ | 112.5 mm | Bore diameter outer ring |
| $d_2$ | 84.4 mm | Raceway diameter of the inner ring |
| $d_s$ | 3.2 mm | Diameter lubrication hole |
| $n_s$ | 6.5 mm | Width of lubricating groove |

### Temperature range

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

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.

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## Calculation factors

| | | |
|---|---|---|
| e | 0.23 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2.95 | Dynamic axial load factor |
| $Y_2$ | 4.4 | Dynamic axial load factor |
| $Y_0$ | 2.89 | Static axial load factor |

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