

FAG

22211-E1-XL-K

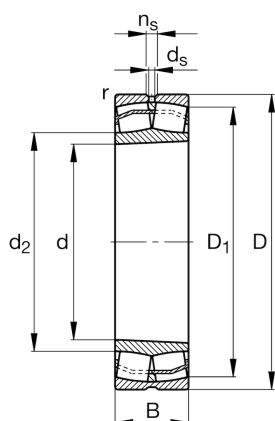
Spherical roller bearing

Schaeffler ID:
0167036340000

Spherical roller bearings 222...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information

**Dimensions**

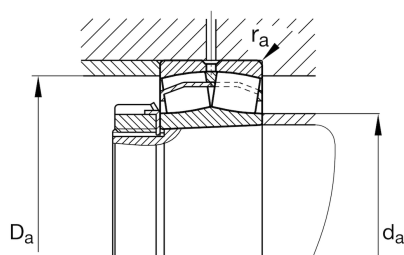
| | | |
|------------|----------|------------------------------------|
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| D_1 | 89,8 mm | Bore diameter outer ring |
| d_2 | 67,6 mm | Raceway diameter of the inner ring |
| d_s | 3,2 mm | Diameter lubrication hole |
| n_s | 4,8 mm | Width of lubricating groove |
| | 0,805 kg | Weight |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 55 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 25 mm | Width |
| C_r | 129.000 N | Basic dynamic load rating, radial |
| C_{0r} | 130.000 N | Basic static load rating, radial |
| C_{ur} | 17.700 N | Fatigue load limit, radial |
| n_G | 9.000 1/min | Limiting speed |
| n_{gr} | 4.650 1/min | Reference speed |

Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 64 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 67 mm | Maximum diameter of shaft shoulder |
| $D_{a \max}$ | 91 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum recess radius |
| $d_{b \min}$ | 60 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 10 mm | Minimum cavity width of the sleeve |



Calculation factors

| | | |
|----------------|------|--|
| e | 0,21 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y ₁ | 3,17 | Dynamic axial load factor |
| Y ₂ | 4,72 | Dynamic axial load factor |
| Y ₀ | 3,1 | Static axial load factor |

Additional information

| | |
|--------|-------------------|
| H311 | Adapter sleeve |
| AHX311 | Withdrawal sleeve |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 200 °C | Operating temperature max. |