

FAG

22310-E1-XL-K

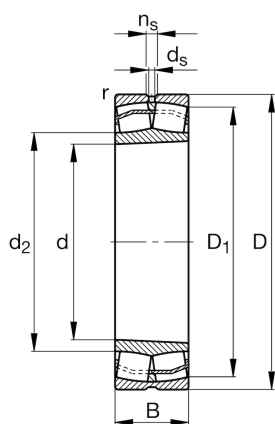
Spherical roller bearing

Schaeffler ID:
0190062500000

Spherical roller bearings 223..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Main Dimensions & Performance Data

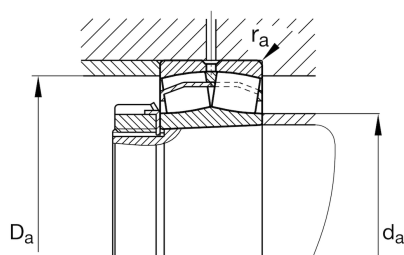
| | | |
|----------|-------------|-----------------------------------|
| d | 50 mm | Bore diameter |
| D | 110 mm | Outside diameter |
| B | 40 mm | Width |
| C_r | 229,000 N | Basic dynamic load rating, radial |
| C_{0r} | 223,000 N | Basic static load rating, radial |
| C_{ur} | 20,700 N | Fatigue load limit, radial |
| n_G | 6,300 1/min | Limiting speed |
| n_{gr} | 4,800 1/min | Reference speed |
| | 1.801 kg | Weight |

Dimensions

| | | |
|-----------|---------|------------------------------------|
| r_{min} | 2 mm | Minimum chamfer dimension |
| D_1 | 92.6 mm | Bore diameter outer ring |
| d_2 | 63 mm | Raceway diameter of the inner ring |
| d_s | 3.2 mm | Diameter lubrication hole |
| n_s | 6.5 mm | Width of lubricating groove |

Mounting dimensions

| | | |
|-------------|-------|---------------------------------------|
| $d_{a min}$ | 61 mm | Minimum diameter shaft shoulder |
| $d_{a max}$ | 63 mm | Maximum diameter of shaft shoulder |
| $D_{a max}$ | 99 mm | Maximum diameter of housing shoulder |
| $r_{a max}$ | 2 mm | Maximum recess radius |
| $d_{b min}$ | 56 mm | Minimum cavity diameter of the sleeve |
| $B_{a min}$ | 5 mm | Minimum cavity width of the sleeve |



Additional information

| | | |
|----------------|---------|--|
| e | 0.36 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| | H2310 | Adapter sleeve |
| Y ₁ | 1.86 | Dynamic axial load factor |
| | AHX2310 | Withdrawal sleeve |
| Y ₂ | 2.77 | Dynamic axial load factor |
| Y ₀ | 1.82 | Static axial load factor |

Temperature range

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