

FAG

22210-E1-XL-K

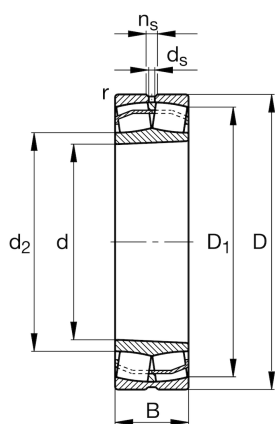
Spherical roller bearing

Schaeffler ID:
0167035450000

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

X-life

Technical information



Main Dimensions & Performance Data

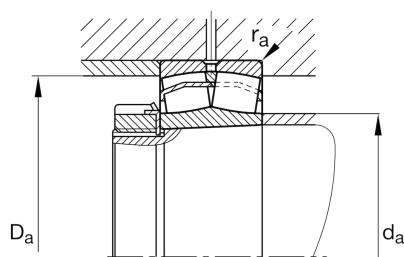
| | | |
|-----------------|-------------|-----------------------------------|
| d | 50 mm | Bore diameter |
| D | 90 mm | Outside diameter |
| B | 23 mm | Width |
| C _r | 109.000 N | Basic dynamic load rating, radial |
| C _{0r} | 107.000 N | Basic static load rating, radial |
| C _{ur} | 14.600 N | Fatigue load limit, radial |
| n _G | 9.800 1/min | Limiting speed |
| n _{gr} | 5.100 1/min | Reference speed |
| | 0,585 kg | Weight |

Additional information

| | | |
|------------------|---------|------------------------------------|
| r _{min} | 1,1 mm | Minimum chamfer dimension |
| | H310 | Adapter sleeve |
| D ₁ | 80,8 mm | Bore diameter outer ring |
| | AHX310 | Withdrawal sleeve |
| d ₂ | 59,9 mm | Raceway diameter of the inner ring |
| d _s | 3,2 mm | Diameter lubrication hole |
| n _s | 4,8 mm | Width of lubricating groove |

Mounting dimensions

| | | |
|--------------------|-------|---------------------------------------|
| d _{a min} | 57 mm | Minimum diameter shaft shoulder |
| d _{a max} | 59 mm | Maximum diameter of shaft shoulder |
| D _{a max} | 83 mm | Maximum diameter of housing shoulder |
| r _{a max} | 1 mm | Maximum recess radius |
| d _{b min} | 55 mm | Minimum cavity diameter of the sleeve |
| B _{a min} | 10 mm | Minimum cavity width of the sleeve |



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 |

Temperature range

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