

FAG

22212-E1A-XL-M

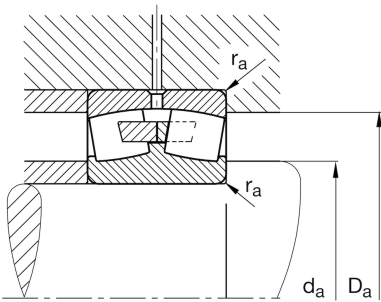
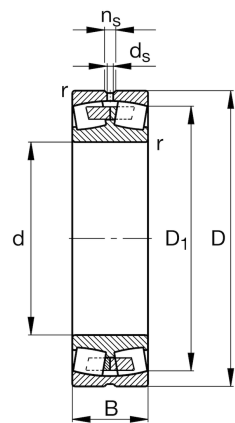
Spherical Roller Bearing

Schaeffler ID:
0190159330000

Spherical roller bearing 222...-E1A-XL-M,
symmetric 2 outer ribs

X-life

Technical information



Main Dimensions & Performance Data

| | | |
|-----------------|----------------|-----------------------------------|
| d | 2,362 in | Bore diameter |
| D | 4,331 in | Outside diameter |
| B | 1,102 in | Width |
| C _r | 35.971,223 lbf | Basic dynamic load rating, radial |
| C _{0r} | 34.847,122 lbf | Basic static load rating, radial |
| C _{ur} | 4.653,777 lbf | Fatigue load limit, radial |
| n _G | 8.100 1/min | Limiting speed |
| n _{gr} | 4.550 1/min | Reference speed |
| | 2,392 lbs | Weight |

Mounting dimensions

| | | |
|--------------------|----------|--------------------------------------|
| d _{a min} | 2,717 in | Minimum diameter shaft shoulder |
| D _{a max} | 3,976 in | Maximum diameter of housing shoulder |
| r _{a max} | 0,059 in | Maximum recess radius |

Dimensions

| | | |
|------------------|----------|------------------------------------|
| r _{min} | 0,059 in | Minimum chamfer dimension |
| D ₁ | 3,886 in | Bore diameter outer ring |
| d ₂ | 2,819 in | Raceway diameter of the inner ring |
| d _s | 0,126 in | Diameter lubrication hole |
| n _s | 0,256 in | Width of lubricating groove |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -22 °F | Operating temperature min. |
| T _{max} | 392 °F | Operating temperature max. |

| Calculation factors | | |
|---------------------|------|---|
| e | 0,23 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y ₁ | 2,98 | Dynamic axial load factor |
| Y ₂ | 4,44 | Dynamic axial load factor |
| Y ₀ | 2,92 | Static axial load factor |