



FAG

★ 23028-E1A-XL-K-M

Spherical roller bearing

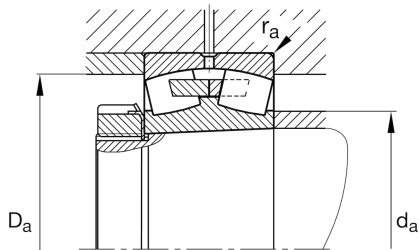
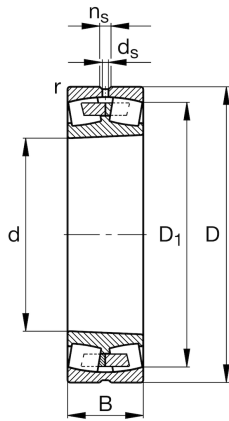
Schaeffler ID:
0190249590000

Spherical roller bearings 230...E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

★ Preferred product

X-life

Technical information



Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |
| | 6,1 kg | Weight |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 140 mm | Bore diameter |
| D | 210 mm | Outside diameter |
| B | 53 mm | Width |
| C_r | 570.000 N | Basic dynamic load rating, radial |
| C_{0r} | 800.000 N | Basic static load rating, radial |
| C_{ur} | 77.000 N | Fatigue load limit, radial |
| n_G | 3.450 1/min | Limiting speed |
| n_{gr} | 2.390 1/min | Reference speed |

Dimensions

| | | |
|------------|----------|-----------------------------|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 192,3 mm | Bore diameter outer ring |
| d_s | 4,8 mm | Diameter lubrication hole |
| n_s | 9,5 mm | Width of lubricating groove |

Mounting dimensions

| | | |
|--------------|----------|---------------------------------------|
| $d_{a \min}$ | 148,8 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 201,2 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum recess radius |
| $d_{a \max}$ | 155 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 147 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 8 mm | Minimum cavity width of the sleeve |

Additional information

| | | |
|----------------|---------|--|
| e | 0,22 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| | H3028 | Adapter sleeve |
| Y ₁ | 3,07 | Dynamic axial load factor |
| | AHX3028 | Withdrawal sleeve |
| Y ₂ | 4,57 | Dynamic axial load factor |
| Y ₀ | 3 | Static axial load factor |