



FAG

★ 22313-E1-XL

Spherical roller bearing

Schaeffler ID:
0190006420000Spherical roller bearings 223...-E1, main
dimensions to DIN 635-2

★ Preferred product

X-life

Technical information



Temperature range

| | | |
|------------|----------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |
| | 3,566 kg | Weight |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 65 mm | Bore diameter |
| D | 140 mm | Outside diameter |
| B | 48 mm | Width |
| C_r | 350.000 N | Basic dynamic load rating, radial |
| C_{0r} | 365.000 N | Basic static load rating, radial |
| C_{ur} | 33.500 N | Fatigue load limit, radial |
| n_G | 5.000 1/min | Limiting speed |
| n_{gr} | 3.800 1/min | Reference speed |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| D_1 | 119,3 mm | Bore diameter outer ring |
| d_2 | 83,2 mm | Raceway diameter of the inner ring |
| d_s | 4,8 mm | Diameter lubrication hole |
| n_s | 9,5 mm | Width of lubricating groove |

Mounting dimensions

| | | |
|-------------|--------|--------------------------------------|
| $d_{a\min}$ | 77 mm | Minimum diameter shaft shoulder |
| $D_{a\max}$ | 128 mm | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 2,1 mm | Maximum recess radius |

Additional information

| | | |
|----------------|------|--|
| e | 0,34 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y ₁ | 2 | Dynamic axial load factor |
| Y ₂ | 2,98 | Dynamic axial load factor |
| Y ₀ | 1,96 | Static axial load factor |