

FAG**22208-E1-XL**

Spherical roller bearing

Schaeffler ID:
0167033910000Spherical roller bearings 222...-E1, main
dimensions to DIN 635-2**X-life**

Technical information

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 40 mm | Bore diameter |
| D | 80 mm | Outside diameter |
| B | 23 mm | Width |
| C _r | 101.000 N | Basic dynamic load rating, radial |
| C _{0r} | 91.000 N | Basic static load rating, radial |
| C _{ur} | 12.100 N | Fatigue load limit, radial |
| n _G | 10.500 1/min | Limiting speed |
| n _{gr} | 6.200 1/min | Reference speed |
| | 0,53 kg | Weight |

Additional information

| | | |
|------------------|---------|------------------------------------|
| r _{min} | 1,1 mm | Minimum chamfer dimension |
| D ₁ | 70,4 mm | Bore diameter outer ring |
| d ₂ | 48,8 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} | 47 mm | Minimum diameter shaft shoulder |
| D _{a max} | 73 mm | Maximum diameter of housing shoulder |
| r _{a max} | 1 mm | Maximum recess radius |

Calculation factors

| | | |
|----------------|------|---|
| e | 0,27 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y ₁ | 2,49 | Dynamic axial load factor |
| Y ₂ | 3,71 | Dynamic axial load factor |
| Y ₀ | 2,43 | Static axial load factor |

Temperature range

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