



SKF 21306 CC

Spherical roller bearing

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. They can be used in a modular system, including housings, sleeves and nuts.

Technical specifications

| General | |
|--|--------------|
| Bore type | Cylindrical |
| Dimensions | |
| Bore diameter | 30 mm |
| Deviation limits of mid-range bore diameter | -0.01..0 mm |
| Outside diameter | 72 mm |
| Deviation limits of mid-range outside diameter | -0.013..0 mm |
| Width | 19 mm |
| Deviation limits of ring width | -0.06..0 mm |
| Shoulder diameter of inner ring | 43.3 mm |
| Shoulder/recess diameter of outer ring | 58.8 mm |
| Chamfer dimension | 1.1 mm |
| ISO tolerance class for dimensions | Normal |
| Abutment dimensions | |
| Diameter of shaft abutment | 37 mm |
| Diameter of housing abutment | 65 mm |
| Radius of fillet | 1 mm |
| Calculation data | |
| SKF performance class | SKF Explorer |
| Basic dynamic load rating | 65.7 kN |
| Basic static load rating | 61 kN |
| Fatigue load limit | 6.8 kN |
| Reference speed | 9500 r/min |
| Limiting speed | 13000 r/min |
| Limiting value | 0.27 |
| Calculation factor | 2.5 |
| Calculation factor | 3.7 |
| Calculation factor | 2.5 |
| Tolerances of run-out | |
| Range of section height at inner ring of assembled bearing | 4 µm |
| Maximum run-out of inner ring side face to the bore | 8 µm |
| Range of section height at outer ring of assembled bearing | 8 µm |
| Perpendicularity of outer ring outside surface | 4 µm |
| ISO tolerance class for geometrical tolerances | P5 |
| Radial internal clearance | |
| Minimum initial clearance | 25 µm |
| Maximum initial clearance | 40 µm |
| Performance | |
| Basic dynamic load rating | 65.7 kN |
| Basic static load rating | 61 kN |
| Reference speed | 9500 r/min |
| Limiting speed | 13000 r/min |

| Properties | |
|---|--------------------------|
| Number of rows | 2 |
| Locating feature, bearing outer ring | Without |
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Radial internal clearance | CN |
| Tolerance class for dimensions | Normal |
| Tolerance class for run-out | P5 |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |
| Indicative carbon footprint for new product | 1.5 kg CO ₂ e |

| Logistics | |
|--------------------|-------------|
| Product net weight | 0.409 kg |
| eClass code | 23-05-09-11 |
| UNSPSC code | 31171510 |

SKF drawings