



SKF NU 311 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

Technical specifications

| Dimensions | |
|---------------------------------|----------|
| Bore diameter | 55 mm |
| Outside diameter | 120 mm |
| Width | 29 mm |
| Shoulder diameter of outer ring | 100.3 mm |
| Raceway diameter of inner ring | 70.5 mm |
| Chamfer dimension | 2 mm |
| Chamfer dimension | 2 mm |
| Permissible axial displacement | 2 mm |

| Abutment dimensions | |
|------------------------------|----------|
| Diameter of spacer sleeve | 65 mm |
| Diameter of spacer sleeve | 68 mm |
| Diameter of shaft abutment | 73 mm |
| Diameter of housing abutment | 109.2 mm |
| Radius of fillet | 2 mm |
| Radius of fillet | 2 mm |

| Calculation data | |
|---------------------------|--------------|
| SKF performance class | SKF Explorer |
| Basic dynamic load rating | 156 kN |
| Basic static load rating | 143 kN |
| Fatigue load limit | 18.6 kN |
| Reference speed | 6000 r/min |
| Limiting speed | 7000 r/min |
| Minimum load factor | 0.15 |
| Limiting value | 0.2 |
| Calculation factor | 0.6 |

| Associated products | |
|---------------------|-----------|
| Angle ring | HJ 311 EC |

| Performance | |
|---------------------------|--------------|
| Basic dynamic load rating | 156 kN |
| Basic static load rating | 143 kN |
| Reference speed | 6000 r/min |
| Limiting speed | 7000 r/min |
| SKF performance class | SKF Explorer |

| Properties | |
|--------------------------------------|--------------------|
| Bearing part | Complete bearing |
| Axial displacement capability | In both directions |
| Number of rows | 1 |
| Locating feature, bearing outer ring | Without |
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Number of flanges, outer ring | 2 |
| Number of flanges, inner ring | 0 |

| | |
|---|--------------------------|
| Loose flange | None |
| Radial internal clearance | CN |
| Tolerance class | Normal |
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |
| Indicative carbon footprint for new product | 5.3 kg CO ₂ e |

| Logistics | |
|--------------------|-------------|
| Product net weight | 1.48 kg |
| eClass code | 23-05-09-01 |
| UNSPSC code | 31171505 |

SKF drawings

