



## SKF 6207 N

### Deep groove ball bearing with snap ring groove

Single row deep groove ball bearings with a snap ring groove are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. An annular groove in the outer ring enables the bearings to retain a snap ring.

## Technical specifications

| Dimensions                                             |                                |
|--------------------------------------------------------|--------------------------------|
| Bore diameter                                          | 35 mm                          |
| Deviation limits of mid-range bore diameter            | -0.01..0 mm                    |
| Outside diameter                                       | 72 mm                          |
| Deviation limits of mid-range outside diameter         | -0.011..0 mm                   |
| Width                                                  | 17 mm                          |
| Deviation limits of ring width                         | -0.06..0 mm                    |
| Shoulder diameter                                      | 46.94 mm                       |
| Recess diameter                                        | 62.69 mm                       |
| Diameter of snap ring groove                           | 68.81 mm                       |
| Width of snap ring groove                              | 1.9 mm                         |
| Distance from outer ring side face to snap ring groove | 3.28 mm                        |
| Bottom radius of snap ring groove                      | 0.6 mm                         |
| Chamfer dimension                                      | 1.1 mm                         |
| ISO tolerance class for dimensions                     | P6 and tighter width tolerance |

| Abutment dimensions                                       |         |
|-----------------------------------------------------------|---------|
| Diameter of shaft abutment                                | 42 mm   |
| Diameter of housing abutment                              | 65 mm   |
| Diameter of snap ring recess in the housing               | 80 mm   |
| Width of snap ring recess in the housing                  | 2.2 mm  |
| Distance from outer ring side face to snap ring back face | 4.98 mm |
| Radius of shaft or housing fillet                         | 1 mm    |

| Calculation data          |              |
|---------------------------|--------------|
| SKF performance class     | SKF Explorer |
| Basic dynamic load rating | 27 kN        |
| Basic static load rating  | 15.3 kN      |
| Fatigue load limit        | 0.655 kN     |
| Reference speed           | 20000 r/min  |
| Limiting speed            | 13000 r/min  |
| Minimum load factor       | 0.03         |
| Calculation factor        | 14           |

| Tolerances of run-out                                      |       |
|------------------------------------------------------------|-------|
| Range of section height at inner ring of assembled bearing | 10 µm |
| Range of section height at outer ring of assembled bearing | 13 µm |
| ISO tolerance class for geometrical tolerances             | P6    |

| Performance               |              |
|---------------------------|--------------|
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| Properties    |         |
|---------------|---------|
| Filling slots | Without |

|                                             |                        |
|---------------------------------------------|------------------------|
| Number of rows                              | 1                      |
| Locating feature, bearing outer ring        | Snap ring groove       |
| Bore type                                   | Cylindrical            |
| Cage                                        | Sheet metal            |
| Matched arrangement                         | No                     |
| Radial internal clearance                   | CN                     |
| Material, bearing                           | Bearing steel          |
| Coating                                     | Without                |
| Sealing                                     | Without                |
| Lubricant                                   | None                   |
| Relubrication feature                       | Without                |
| Indicative carbon footprint for new product | 1 kg CO <sub>2</sub> e |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 0.277 kg    |
| eClass code        | 23-05-08-01 |
| UNSPSC code        | 31171504    |

**SKF drawings**