



## SKF 6209

### Deep groove ball bearing

Single row deep groove ball bearings 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.

## Technical specifications

Dimensions	
Bore diameter	45 mm
Deviation limits of mid-range bore diameter	-0.01..0 mm
Outside diameter	85 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	57.6 mm
Recess diameter	75.19 mm
Chamfer dimension	1.1 mm
ISO tolerance class for dimensions	P6 and tighter width tolerance

  

Abutment dimensions	
Diameter of shaft abutment	52 mm
Diameter of housing abutment	78 mm
Radius of shaft or housing fillet	1 mm

  

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	35.1 kN
Basic static load rating	21.6 kN
Fatigue load limit	0.915 kN
Reference speed	17000 r/min
Limiting speed	11000 r/min
Minimum load factor	0.03
Calculation factor	14.2

  

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	18 µm
ISO tolerance class for geometrical tolerances	P6

  

Performance	
Basic dynamic load rating	35.1 kN
Basic static load rating	21.6 kN
Reference speed	17000 r/min
Limiting speed	11000 r/min
SKF performance class	SKF Explorer

  

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
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	1.5 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	0.404 kg
eClass code	23-05-08-01
UNSPSC code	31171504

**SKF drawings**