



## SKF 30209

### Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

## Technical specifications

General	
Dimension series	3DB
Dimensions	
Bore diameter	45 mm
Outside diameter	85 mm
Bearing width, total	20.75 mm
Shoulder diameter of inner ring	63.1 mm
Width of inner ring	19 mm
Width of outer ring	16 mm
Chamfer dimension of inner ring	1.5 mm
Chamfer dimension of outer ring	1.5 mm
Distance side face to pressure point	17.829 mm
Width, total	20.75 mm
Width, inner ring	19 mm
Width, outer ring	16 mm
Contact angle	15.1 °
Abutment dimensions	
Diameter of shaft abutment	54 mm
Diameter of shaft abutment	53.5 mm
Diameter of housing abutment	74 mm
Diameter of housing abutment	77.5 mm
Diameter of housing abutment	80 mm
Minimum width of space required in housing on large side face	3 mm
Minimum width of space required in housing on small side face	4.5 mm
Radius of shaft fillet	1.5 mm
Radius of housing fillet	1.5 mm
Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	81.6 kN
Basic static load rating	76.5 kN
Fatigue load limit	8.65 kN
Reference speed	6300 r/min
Limiting speed	8000 r/min
Limiting value	0.4
Calculation factor	1.5
Calculation factor	0.8
Performance	
Basic dynamic load rating	81.6 kN
Basic static load rating	76.5 kN
Reference speed	6300 r/min
Limiting speed	8000 r/min
SKF performance class	SKF Explorer
Properties	

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Unit system	Metric
Indicative carbon footprint for new product	1.7 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	0.473 kg
eClass code	23-05-09-10
UNSPSC code	31171516

SKF drawings

