



SKF 33211

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	3DE

Dimensions	
Bore diameter	55 mm
Outside diameter	100 mm
Bearing width, total	35 mm
Shoulder diameter of inner ring	78.13 mm
Width of inner ring	35 mm
Width of outer ring	27 mm
Chamfer dimension of inner ring	2 mm
Chamfer dimension of outer ring	1.5 mm
Distance side face to pressure point	24.9 mm
Width, total	35 mm
Width, inner ring	35 mm
Width, outer ring	27 mm
Contact angle	14.9 °

Abutment dimensions	
Diameter of shaft abutment	63 mm
Diameter of shaft abutment	65 mm
Diameter of housing abutment	85 mm
Diameter of housing abutment	92 mm
Diameter of housing abutment	96 mm
Minimum width of space required in housing on large side face	6 mm
Minimum width of space required in housing on small side face	8 mm
Radius of shaft fillet	2 mm
Radius of housing fillet	1.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	170 kN
Basic static load rating	190 kN
Fatigue load limit	21.6 kN
Reference speed	4800 r/min
Limiting speed	6300 r/min
Limiting value	0.4
Calculation factor	1.5
Calculation factor	0.8

Performance	
Basic dynamic load rating	170 kN
Basic static load rating	190 kN
Reference speed	4800 r/min
Limiting speed	6300 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	4.2 kg CO ₂ e

Logistics	
Product net weight	1.16 kg
eClass code	23-05-09-10
UNSPSC code	31171516

SKF drawings