



## SKF 22215 EK/C3

Spherical roller bearing with tapered bore and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

### Technical specifications

<b>General</b>	
Bore type	Tapered 1:12
<b>Dimensions</b>	
Bore diameter	75 mm
Deviation limits of mid-range bore diameter	0..0.03 mm
Deviation limits of tapered slope	0..0.03 mm
Outside diameter	130 mm
Deviation limits of mid-range outside diameter	-0.018..0 mm
Width	31 mm
Deviation limits of ring width	-0.06..0 mm
Shoulder diameter of inner ring	87.8 mm
Shoulder/recess diameter of outer ring	115 mm
Width of lubrication groove	6 mm
Diameter of lubrication hole	3 mm
Chamfer dimension	1.5 mm
ISO tolerance class for dimensions	Normal
<b>Abutment dimensions</b>	
Diameter of housing abutment	121 mm
Radius of fillet	1.5 mm
<b>Calculation data</b>	
SKF performance class	SKF Explorer
Basic dynamic load rating	217 kN
Basic static load rating	240 kN
Fatigue load limit	26.5 kN
Reference speed	4800 r/min
Limiting speed	6300 r/min
Limiting value	0.22
Calculation factor	3
Calculation factor	4.6
Calculation factor	2.8
<b>Tolerances of run-out</b>	
Range of section height at inner ring of assembled bearing	5 µm
Maximum run-out of inner ring side face to the bore	8 µm
Range of section height at outer ring of assembled bearing	11 µm
Perpendicularity of outer ring outside surface	5 µm
ISO tolerance class for geometrical tolerances	P5
<b>Radial internal clearance</b>	
Minimum initial clearance	95 µm
Maximum initial clearance	120 µm
<b>Performance</b>	
Basic dynamic load rating	217 kN
Basic static load rating	240 kN

Reference speed	4800 r/min
Limiting speed	6300 r/min
SKF performance class	SKF Explorer

<b>Properties</b>	
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	C3
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	5.9 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	1.65 kg
eClass code	23-05-09-11
UNSPSC code	31171510

**SKF drawings**