



## SKF 23120 CC/W33

### Spherical roller bearing with 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	Cylindrical
<b>Dimensions</b>	
Bore diameter	100 mm
Deviation limits of mid-range bore diameter	-0.02..0 mm
Outside diameter	165 mm
Deviation limits of mid-range outside diameter	-0.025..0 mm
Width	52 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	115 mm
Shoulder/recess diameter of outer ring	144 mm
Width of lubrication groove	6 mm
Diameter of lubrication hole	3 mm
Chamfer dimension	2 mm
ISO tolerance class for dimensions	Normal
<b>Abutment dimensions</b>	
Diameter of shaft abutment	111 mm
Diameter of housing abutment	154 mm
Radius of fillet	2 mm
<b>Calculation data</b>	
SKF performance class	SKF Explorer
Basic dynamic load rating	385 kN
Basic static load rating	490 kN
Fatigue load limit	53 kN
Reference speed	3000 r/min
Limiting speed	4000 r/min
Limiting value	0.3
Calculation factor	2.3
Calculation factor	3.4
Calculation factor	2.2
<b>Tolerances of run-out</b>	
Range of section height at inner ring of assembled bearing	6 µm
Maximum run-out of inner ring side face to the bore	9 µm
Range of section height at outer ring of assembled bearing	13 µm
Perpendicularity of outer ring outside surface	5 µm
ISO tolerance class for geometrical tolerances	P5
<b>Radial internal clearance</b>	
Minimum initial clearance	60 µm
Maximum initial clearance	100 µm
<b>Performance</b>	
Basic dynamic load rating	385 kN
Basic static load rating	490 kN

Reference speed	3000 r/min
Limiting speed	4000 r/min
SKF performance class	SKF Explorer

<b>Properties</b>	
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	15.7 kg CO <sub>2</sub> e
Indicative carbon footprint for remanufactured product	5.5 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	4.35 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

