



## SKF 3220 A

### Double row angular contact ball bearing

Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

## Technical specifications

Dimensions	
Bore diameter	100 mm
Outside diameter	180 mm
Width	60.3 mm
Shoulder diameter inner ring	126.55 mm
Shoulder diameter outer ring	161.05 mm
Chamfer dimension inner ring	2.1 mm
Distance pressure point(s)	107 mm
Contact angle	30 °

Abutment dimensions	
Abutment diameter shaft	112 mm
Abutment diameter housing	168 mm
Fillet radius	2 mm

Calculation data	
Basic dynamic load rating	178 kN
Basic static load rating	166 kN
Fatigue load limit	6 kN
Reference speed	3800 r/min
Limiting speed	3200 r/min
Calculation factor	0.06
Limiting value	0.8
Calculation factor	0.63
Calculation factor	0.66
Calculation factor	0.78
Calculation factor	1.2

Performance	
Basic dynamic load rating	178 kN
Basic static load rating	166 kN
Reference speed	3800 r/min
Limiting speed	3200 r/min

Properties	
Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	Without
Ring type	One-piece inner and outer rings
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None

Relubrication feature	Without
Indicative carbon footprint for new product	19.9 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	5.54 kg
eClass code	23-05-08-03
UNSPSC code	31171531

SKF drawings

