



## SKF 7302 BE-2RZP

Single row angular contact ball bearing with 40° contact angle and non-contact seals

These single row angular contact ball bearings, with 40° contact angle and non-contact seals on both sides, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have a ball-centred glass-fibre reinforced PA66 cage. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

### Technical specifications

Dimensions	
Bore diameter	15 mm
Deviation limits of mid-range bore diameter	-0.008..0 mm
Outside diameter	42 mm
Deviation limits of mid-range outside diameter	-0.011..0 mm
Width	13 mm
Deviation limits of ring width	-0.12..0 mm
Shoulder diameter of inner ring (large side face)	26 mm
Shoulder diameter of inner ring (small side face)	20.73 mm
Recess diameter of outer ring (large side face)	33.8 mm
Recess diameter of outer ring (small side face)	38.55 mm
Distance side face to pressure point	18.6 mm
Chamfer dimension	1 mm
Chamfer dimension	0.6 mm
ISO tolerance class for dimensions	Normal
Contact angle	40 °

Abutment dimensions	
Diameter of shaft abutment	21 mm
Diameter of shaft abutment	25.5 mm
Abutment diameter housing	36 mm
Diameter of housing abutment	38 mm
Radius of fillet	1 mm
Radius of fillet	0.6 mm

Calculation data	
Basic dynamic load rating	13 kN
Basic static load rating	6.7 kN
Fatigue load limit	0.28 kN
Reference speed	22000 r/min
Limiting speed	17000 r/min
Minimum axial load factor	0.0009
Minimum radial load factor	0.1
Limiting value	1.1
Calculation factor (single, tandem)	0.35
Calculation factor (single, tandem)	0.26
Calculation factor (single, tandem)	0.57
Calculation factor (back-to-back, face-to-face)	0.57
Calculation factor (back-to-back, face-to-face)	0.52
Calculation factor (back-to-back, face-to-face)	0.55
Calculation factor (back-to-back, face-to-face)	0.93

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	10 µm
Range of section height at outer ring of assembled bearing	20 µm
ISO tolerance class for geometrical tolerances	Normal

Performance	

Basic dynamic load rating	13 kN
Basic static load rating	6.7 kN
Reference speed	22000 r/min
Limiting speed	17000 r/min

<b>Properties</b>	
Contact type	Normal contact (two-point contact)
Number of rows	1
Locating feature, bearing outer ring	Without
Ring type	One-piece inner and outer rings
Cage	Non-metallic
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	Not applicable
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.3 kg CO <sub>2</sub> e

<b>Logistics</b>	
Product net weight	0.0826 kg
eClass code	23-05-08-03
UNSPSC code	31171531

