



SKF BSA 308 CGB

Super-precision single direction angular contact thrust ball bearing

These super-precision ball bearings offer very high running accuracy and are well suited for screw drive applications. They are also beneficial in other applications, where safe radial and axial support is required, together with extremely precise axial guidance of the shaft. They provide a high degree of axial stiffness and can accommodate heavy axial loads in one direction, high speeds and rapid accelerations.

Technical specifications

Dimensions	
Bore diameter	40 mm
Outside diameter	90 mm
Height	23 mm
Shoulder diameter	57.55 mm
Shoulder diameter	66.5 mm
Shoulder/recess diameter	66.6 mm
Shoulder/recess diameter	77.27 mm
Chamfer dimension	1.5 mm
Distance to pressure point	74 mm
Contact angle	62 °

Abutment dimensions	
Diameter of shaft abutment	53 mm
Diameter of shaft abutment	53 mm
Diameter of housing abutment	81 mm
Diameter of housing abutment	81 mm
Radius of housing fillet	1.5 mm

Calculation data	
Basic dynamic load rating	67 kN
Basic static load rating	180 kN
Fatigue load limit	6.7 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	7000 r/min
Contact angle	62 °
Preload	10200 N
Frictional moment	0.62 N·m
Axial stiffness for preload A (sets of two brgs back-to-back or face-to-face)	1710 N/μm
Maximum axial load carrying capacity	78.2 kN
Reference grease quantity	6.4 cm ³

Performance	
Basic dynamic load rating	67 kN
Basic static load rating	180 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	7000 r/min

Properties	
Axial load capability	Single-direction
Number of rows	1
Locating feature, bearing outer ring	Without
Cage	Non-metallic
Tolerance class	Special
Material, bearing	Bearing steel
Coating	Without
Sealing	Without

Relubrication feature	Without
Indicative carbon footprint for new product	2.5 kg CO ₂ e

Logistics	
Product net weight	0.7 kg
eClass code	23-05-08-03
UNSPSC code	31171507

SKF drawings

