SKF BSA 206 CGA

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	30 mm
Outside diameter	62 mm
Height	16 mm
Shoulder diameter	39.9 mm
Shoulder diameter	46 mm
Shoulder/recess diameter	46.1 mm
Shoulder/recess diameter	52.91 mm
Chamfer dimension	1 mm
Distance to pressure point	51 mm
Contact angle	62 °

Abutment dimensions	
Diameter of shaft abutment	37 mm
Diameter of shaft abutment	37 mm
Diameter of housing abutment	57 mm
Diameter of housing abutment	57 mm
Radius of housing fillet	1 mm

Calculation data	
Basic dynamic load rating	28.5 kN
Basic static load rating	71 kN
Fatigue load limit	2.65 kN
Attainable speed for grease lubrication	8000 r/min
Attainable speed for oil-air lubrication	9500 r/min
Contact angle	62 °
Preload	2150 N
Frictional moment	0.12 N·m
Axial stiffness for preload A (sets of two brgs back-to-back or face-to-face)	870 N/µm
Maximum axial load carrying capacity	22.6 kN
Reference grease quantity	2.2 cm³

Performance	
Basic dynamic load rating	28.5 kN
Basic static load rating	71 kN
Attainable speed for grease lubrication	8000 r/min
Attainable speed for oil-air lubrication	9500 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	0.79 kg CO₂e

Logistics	
Product net weight	0.22 kg
eClass code	23-05-08-03
UNSPSC code	31171507

SKF drawings