



SKF 7206 CD/P4A

Super-precision, high-capacity, single row angular contact ball bearing

These super-precision, high-capacity, single row angular contact ball bearings, with 15° contact angle, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They are designed to accommodate heavy loads at relatively high speeds under low to moderate operating temperatures.

Technical specifications

General	
Universal matching bearing(s)	No
Dimensions	
Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm
Shoulder diameter of inner ring (large side face)	40.2 mm
Shoulder diameter of inner ring (small side face)	40.2 mm
Shoulder diameter of outer ring (large side face)	51.8 mm
Chamfer dimension	1 mm
Chamfer dimension	0.3 mm
Distance from side face to pressure point	14.2 mm
Contact angle	15 °
Abutment dimensions	
Diameter of shaft abutment	35.6 mm
Diameter of shaft abutment	35.6 mm
Diameter of housing abutment	56.4 mm
Diameter of housing abutment	59.6 mm
Radius of fillet	1 mm
Radius of fillet	0.3 mm
Position of oil nozzle	42.7 mm
Calculation data	
Basic dynamic load rating	24.2 kN
Basic static load rating	16 kN
Fatigue load limit	0.67 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Contact angle	15 °
Ball diameter	9.525 mm
Number of rows	1
Number of balls (per bearing)	13
Reference grease quantity (per bearing)	2.8 cm ³
Preload, class A	90 N
Axial stiffness for preload A (sets of two brgs back to back or face to face)	43 N/μm
Preload, class B	180 N
Axial stiffness for preload B (sets of two brgs back-to-back or face-to-face)	59 N/μm
Preload, class C	360 N
Axial stiffness for preload C (sets of two brgs back-to-back or face-to-face)	82 N/μm
Preload, class D	720 N
Axial stiffness for preload D (sets of two brgs back-to-back or face-to-face)	118 N/μm
Correction factor dependent on bearing series and size	1.1

Correction factor dependent on contact angle	1
Correction factor, preload class A	1
Correction factor, preload class B	1
Correction factor, preload class C	1
Correction factor, preload class D	1.1
Correction factor for hybrid bearings	1
Calculation factor for equivalent loads	14
Additional factors for equivalent loads	Refer to Notes 1 and 2 below

Performance

Basic dynamic load rating	24.2 kN
Basic static load rating	16 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min

Properties

Contact type	Normal contact (two-point contact)
Number of rows	1
Ring type	One-piece inner and outer rings
Design	High-capacity D
Universal matching bearing	No
Matched arrangement	No
Matched condition (axial clearance/ preload)	Not applicable
Tolerance class	P4A
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Indicative carbon footprint for new product	0.7 kg CO ₂ e

Logistics

Product net weight	0.194 kg
eClass code	23-05-08-04
UNSPSC code	31171531

SKF drawings



