



SKF 7203 CDGA/P4A

Super-precision, high-capacity, universally matchable single row angular contact

These super-precision, high-capacity, single row angular contact ball bearings 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. Being universally matchable, they can be used together in arrangements to provide effective load sharing, within a predetermined preload range, without the use of shims or similar devices.

Technical specifications

General	
Universal matching bearing(s)	Yes, back-to-back (<>), face-to-face (><) or tandem (>>)

Dimensions	
Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm
Shoulder diameter of inner ring (large side face)	24.1 mm
Shoulder diameter of inner ring (small side face)	24.1 mm
Shoulder diameter of outer ring (large side face)	32.8 mm
Chamfer dimension	0.6 mm
Chamfer dimension	0.3 mm
Distance from side face to pressure point	9.9 mm
Contact angle	15 °

Abutment dimensions	
Diameter of shaft abutment	21.2 mm
Diameter of shaft abutment	21.2 mm
Diameter of housing abutment	35.8 mm
Diameter of housing abutment	37.6 mm
Radius of fillet	0.6 mm
Radius of fillet	0.3 mm
Position of oil nozzle	25.9 mm

Calculation data	
Basic dynamic load rating	9.23 kN
Basic static load rating	4.15 kN
Fatigue load limit	0.176 kN
Attainable speeds	Refer to catalogue data or contact SKF for the attainable speeds
Contact angle	15 °
Ball diameter	7.144 mm
Number of rows	1
Number of balls (per bearing)	10
Reference grease quantity (per bearing)	1 cm ³
Preload class	A
Preload when unmounted	35 N
Axial stiffness	21 N/μm
Correction factor dependent on bearing series and size	1
Correction factor dependent on contact angle	1
Correction factor, preload class A	1
Correction factor for hybrid bearings	1
Calculation factor for equivalent loads	8.5
Additional factors for equivalent loads	Refer to Notes 1 and 2 below

Performance	
Basic dynamic load rating	9.23 kN

Basic static load rating	4.15 kN
Note	Refer to catalogue data or contact SKF for the attainable speeds

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	Yes, back-to-back (<>), face-to-face (><) or tandem (>>)
Matched arrangement	No
Matched condition (axial clearance/ preload)	Measuring load, class A
Tolerance class	P4A
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Indicative carbon footprint for new product	0.22 kg CO ₂ e

Logistics	
Product net weight	0.062 kg
eClass code	23-05-08-04
UNSPSC code	31171531

SKF drawings



