



SKF 7212 CD/P4ADBB

Matched set of two super-precision, high-capacity, D design, single row angular contact ball bearings

These matched sets of two super-precision, high-capacity, D design, single row angular contact ball bearings are available in a variety of arrangements. They are designed for high-load capacity and relatively high speed operation and, compared to the equivalent SKF B and E design high-speed bearings, are best suited for heavier loads.

Technical specifications

General	
Universal matching bearing(s)	No
Dimensions	
Bore diameter	60 mm
Outside diameter	110 mm
Width	44 mm
Shoulder diameter of inner ring (large side face)	76.4 mm
Chamfer dimension	1.5 mm
Chamfer dimension	0.6 mm
Contact angle	15 °
Abutment dimensions	
Diameter of shaft abutment	69 mm
Diameter of housing abutment	105.8 mm
Radius of fillet	1.5 mm
Radius of fillet	0.6 mm
Position of oil nozzle	80.1 mm
Calculation data	
Basic dynamic load rating	93.6 kN
Basic static load rating	93 kN
Fatigue load limit	4 kN
Attainable speed for grease lubrication	To be calculated: Single bearing (13000) x speed reduction factor (see table below)
Attainable speed for oil-air lubrication	To be calculated: Single bearing (20000) x speed reduction factor (see table below)
Contact angle	15 °
Ball diameter	14.288 mm
Number of rows	2
Number of balls (per bearing)	16
Reference grease quantity (per bearing)	10.1 cm ³
Preload class	B
Preload	430 N
Axial stiffness	102 N/μm
Correction factor dependent on bearing series and size	1.1
Correction factor dependent on contact angle	1
Correction factor, preload class B	1
Correction factor for hybrid bearings	1
Calculation factor for equivalent loads	14.9
Additional factors for equivalent loads	Refer to Notes 1 and 2 below
Performance	
Basic dynamic load rating	93.6 kN
Basic static load rating	93 kN
Note	Refer to catalogue data or contact SKF for the attainable speeds

Properties	
Contact type	Normal contact (two-point contact)
Number of rows	2
Ring type	One-piece inner and outer rings
Design	High-capacity D
Universal matching bearing	No
Matched arrangement	Back-to-back <>
Number of bearings in matched set	2
Matched condition (axial clearance/ preload)	Light preload
Tolerance class	P4A
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Indicative carbon footprint for new product	5.7 kg CO ₂ e

Logistics	
Product net weight	1.59 kg
eClass code	23-05-08-04
UNSPSC code	31171531

SKF drawings



