



SKF 305283 DA

Double row angular contact ball bearing with two-piece inner ring and relubrication

Double row angular contact ball bearing, with two-piece inner ring and relubrication feature, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement. The two-piece inner ring enables incorporation of more balls, resulting in higher load carrying capacity. The annular lubrication groove and holes in the outer ring facilitates relubrication.

Technical specifications

Dimensions	
Bore diameter	150 mm
Outside diameter	230 mm
Width	70 mm
Shoulder diameter inner ring for two-piece inner ring	181 mm
Shoulder diameter outer ring	208.1 mm
Width annular lubrication groove at outer ring	7.8 mm
Diameter lubrication hole (outer ring)	3 mm
Chamfer dimension inner ring for two-piece inner ring	2 mm
Distance pressure point(s)	194 mm
Contact angle	40 °

Abutment dimensions	
Abutment diameter shaft	155 mm
Abutment diameter housing	206 mm
Fillet radius	2 mm

Calculation data	
Basic dynamic load rating	203 kN
Basic static load rating	285 kN
Fatigue load limit	9 kN
Reference speed	2800 r/min
Limiting speed	3000 r/min
Calculation factor	0.1
Limiting value	1.1
Calculation factor	0.57
Calculation factor	0.52
Calculation factor	0.55
Calculation factor	0.93

Performance	
Basic dynamic load rating	203 kN
Basic static load rating	285 kN
Reference speed	2800 r/min
Limiting speed	3000 r/min

Properties	
Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	Without
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined brass
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	NSTD
Material, bearing	Bearing steel
Coating	Without

Sealing	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	38.2 kg CO ₂ e

Logistics	
Product net weight	10.6 kg
eClass code	23-05-08-03
UNSPSC code	31171531

SKF drawings