T4CB 120Single row tapered roller bearing

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	170 mm
Width, total	27 mm
Width, inner ring	25 mm
Width, outer ring	19.5 mm
Contact angle	17.5 °

Performance

Basic dynamic load rating	195 kN
Basic static load rating	250 kN
Reference speed	2 800 r/min
Limiting speed	3 600 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without

Lubricant	None
Relubrication feature	Without

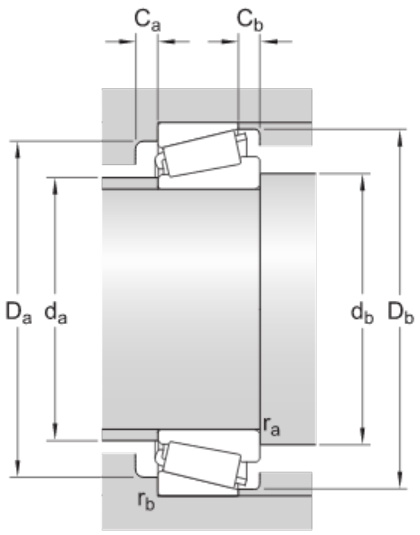
Technical Specification

SKF performance class	SKF Explorer
Dimension series	4CB

NOT FOUND

Dimensions

d	120 mm	Bore diameter
D	170 mm	Outside diameter
T	27 mm	Total width
d_1	≈ 143.15 mm	Shoulder diameter of inner ring
B	25 mm	Width of inner ring
C	19.5 mm	Width of outer ring
$r_{1,2}$	min. 3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension of outer ring
a	34.368 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 131 mm	Diameter of shaft abutment
d_b	min. 133.5 mm	Diameter of shaft abutment
D_a	min. 157 mm	Diameter of housing abutment
D_a	max. 157.5 mm	Diameter of housing abutment
D_b	min. 164 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 7.5 mm	Minimum width of space required in housing on small side face

r_a	max. 3 mm	Radius of shaft fillet
r_b	max. 3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	195 kN
Basic static load rating	C_0	250 kN
Fatigue load limit	P_u	26.5 kN
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Limiting value	e	0.48
Calculation factor	Y	1.25
Calculation factor	Y_0	0.7

Mass

Mass	1.74 kg

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