T4CB 140

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	5.512 in
Outside diameter	7.677 in
Width, inner ring	1.063 in
Width, outer ring	0.827 in
Width, total	1.142 in

Performance

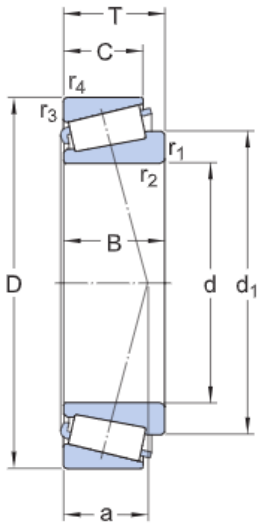
Basic dynamic load rating	54 179 lbf
Basic static load rating	73 063 lbf
Limiting speed	3 000 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

Properties

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

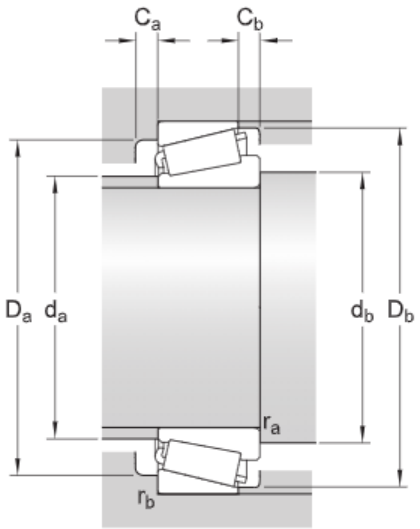
Technical Specification

SKF performance class	SKF Explorer
Dimension series	4CB



Dimensions

d	5.512 in	Bore diameter
D	7.677 in	Outside diameter
T	1.142 in	Total width
d_1	≈ 6.531 in	Shoulder diameter of inner ring
B	1.063 in	Width of inner ring
C	0.827 in	Width of outer ring
$r_{1,2}$	min. 0.118 in	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.118 in	Chamfer dimension of outer ring
a	1.591 in	Distance side face to pressure point



Abutment dimensions

d_a	max. 5.906 in	Diameter of shaft abutment
d_b	min. 6.063 in	Diameter of shaft abutment
D_a	min. 7.087 in	Diameter of housing abutment
D_a	max. 7.165 in	Diameter of housing abutment
D_b	min. 7.441 in	Diameter of housing abutment
C_a	min. 0.236 in	Minimum width of space required in housing on large side face
C_b	min. 0.315 in	Minimum width of space required in housing on small side face
r_a	max. 0.118 in	Radius of shaft fillet

r_b	max. 0.118 in	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	54 179 lbf
Basic static load rating	C_0	73 063 lbf
Fatigue load limit	P_u	7 531 lbf
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Limiting value	e	0.5
Calculation factor	Y	1.2
Calculation factor	Y_0	0.7

Mass

Mass	5.3 lb

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