



31314

SKF Explorer

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

Normal and CL7C, CLN, Normal and CL, deviating width

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

7GB



DIMENSIONS

d	70 mm
D	150 mm
T	38 mm
d ₁	≈ 111 mm
B	35 mm
C	25 mm
r _{1,2}	min. 3 mm
r _{3,4}	min. 2.5 mm
a	45.253 mm

ABUTMENT DIMENSIONS

d _a	max. 85 mm
d _b	min. 83 mm
D _a	min. 118 mm
D _a	max. 139 mm



D_b	min. 141 mm
C_a	min. 5 mm
C_b	min. 13 mm
r_a	max. 3 mm
r_b	max. 2.5 mm

CALCULATION DATA

Basic dynamic load rating	C	229 kN
Basic static load rating	C_0	220 kN
Fatigue load limit	P_u	27 kN
Reference speed		3 400 r/min
Limiting speed		4 500 r/min
Calculation factor	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

MASS

Mass bearing	2.87 kg
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More information

Product details	Engineering information	Tools
Designs and variants <hr/>	Principles of rolling bearing selection <hr/>	SimPro Quick <hr/>
Bearing data <hr/>	General bearing knowledge <hr/>	Bearing Select <hr/>
Loads <hr/>	Bearing selection process <hr/>	Engineering Calculator <hr/>
Temperature limits <hr/>	Bearing failure and how to prevent it <hr/>	LubeSelect for SKF greases <hr/>
Permissible speed <hr/>		Heater Selection Tool <hr/>
Design considerations <hr/>		Oil Injection Method Program <hr/>
Bearing designations <hr/>		skf.com/mount <hr/>
Designation system <hr/>		

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