



HM 803149/110

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

HM 803000



DIMENSIONS

d	44.45 mm
D	88.9 mm
T	30.162 mm
d ₁	≈ 69 mm
B	29.37 mm
C	23.02 mm
r _{1,2}	min. 3.5 mm
r _{3,4}	min. 3.3 mm
a	25.497 mm

ABUTMENT DIMENSIONS

d _a	max. 53 mm
d _b	min. 57.5 mm
D _a	min. 70 mm
D _a	max. 77.5 mm



D_b	min. 84 mm
C_a	min. 4 mm
C_b	min. 7 mm
r_a	max. 3.5 mm
r_b	max. 3.3 mm

CALCULATION DATA

Basic dynamic load rating	C	116 kN
Basic static load rating	C_0	127 kN
Fatigue load limit	P_u	14.6 kN
Reference speed		6000 r/min
Limiting speed		7500 r/min
Calculation factor	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

MASS

Mass bearing	0.86 kg
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More information

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

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