

HM 803149/110

SKF Explorer

Tapered roller bearings, single row

Bearing data

Tolerances,

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

Bearing interfaces

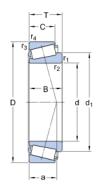
Seat tolerances for standard

conditions,

Tolerances and resultant fit

Technical specification

Dimension series HM 803000



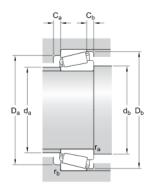
DIMENSIONS

d	44.45 mm
D	88.9 mm
Т	30.162 mm
d_1	≈ 69 mm
В	29.37 mm
С	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	С	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	е	0.54
Calculation factor	Υ	1.1
Calculation factor	Y _O	0.6

MASS

Mass bearing	0.86 kg	g
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More information

Designs	Designs			SimPro	SimPro	
and variants	and variants	Principles of rolling	Principles of rolling	Quick ——— Bearing	Quick ——— Bearing	
Bearing data	Bearing data	bearing -selection General	selection	selection selection	Select	Select
Loads	Loads	bearing k nowledge	bearing k nowledge	Engineer ing Calcul ator	Engineer ing Calcul ator	
Tempera ture limits	Tempera ture limits	Bearing selection process	Bearing selection process	LubeSele ct for SKF greases	LubeSele ct for SKF greases	
Permissi ble speed	Permissi ble speed	Bearing failure	Bearing failure	Heater Selection	Heater Selection	
Design c onsiderati ons	Design c onsiderati ons	and how to prevent it	and how to prevent it	Tool Oil Injection Method	Tool Oil Injection Method	
Bearing designati ons	Bearing designati ons			Program skf.com/ mount	Program skf.com/ mount	
Designati on system	Designati on system					

5KF.



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