

JM 205149/110 A

SKF Explorer

Tapered roller bearings, single row

Bearing data

Tolerances,

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

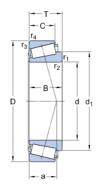
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

Technical specification

Dimension series M 205100



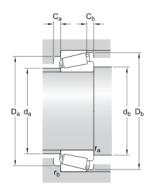
DIMENSIONS

d	50 mm
D	90 mm
Т	28 mm
d_1	≈ 68.8 mm
В	28 mm
С	23 mm
r _{1,2}	min. 3 mm
r _{3,4}	min. 0.8 mm
a	20.024 mm

ABUTMENT DIMENSIONS

d_a	max. 58 mm
d_b	min. 62 mm
D _a	min. 78 mm
D_a	max. 83.5 mm





D_b	min. 85 mm
C_a	min. 5 mm
C_b	min. 5 mm
r _a	max. 3 mm
r_b	max. 0.8 mm

CALCULATION DATA

Basic dynamic load rating	С	130 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_{u}	16 kN
Reference speed		6000 r/min
Limiting speed		7500 r/min
Calculation factor	е	0.33
Calculation factor	Υ	1.8
Calculation factor	Y_0	1

MASS

Mass bearing	0.75 kg
--------------	---------





More information

Designs	Designs			SimPro	SimPro	
and variants	and variants	Principles of rolling bearing -selection General bearing k nowledge Bearing selection process	Principles of rolling	Quick ——— Bearing	Quick ——— Bearing	
Bearing data	Bearing data		-selection General bearing k	bearing -selection General	Select Engineer ing Calcul ator	Select
Loads	Loads			bearing k nowledge		Engineer ing Calcul ator
Tempera ture limits	Tempera ture limits		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		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.



Terms and conditions

By accessing and using this website / app of SKF Group, meaning AB SKF and / or any of its affiliates ("SKF"), you agree to the following terms and conditions:

Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app. Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service. Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website /app includes certain images used under license from Shutterstock, Inc.

Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

Changes

SKF reserves the right to make changes or additions to this website / app at any time.

5KF.