



# 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
T	28 mm
d <sub>1</sub>	≈ 68.8 mm
B	28 mm
C	23 mm
r <sub>1,2</sub>	min. 3 mm
r <sub>3,4</sub>	min. 0.8 mm
a	20.024 mm

## ABUTMENT DIMENSIONS

d <sub>a</sub>	max. 58 mm
d <sub>b</sub>	min. 62 mm
D <sub>a</sub>	min. 78 mm
D <sub>a</sub>	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	$C$	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	$e$	0.33
Calculation factor	$Y$	1.8
Calculation factor	$Y_0$	1

## MASS

Mass bearing	0.75 kg
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More information

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

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