



# JM 718149 A/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

M 718100



## DIMENSIONS

d	90 mm
D	145 mm
T	35 mm
$d_1$	≈ 117.18 mm
B	34 mm
C	27 mm
$r_{1,2}$	min. 6 mm
$r_{3,4}$	min. 2.5 mm
a	32.691 mm

## ABUTMENT DIMENSIONS

$d_a$	max. 100 mm
$d_b$	min. 109 mm
$D_a$	min. 127 mm
$D_a$	max. 134 mm



$D_b$	min. 139 mm
$C_a$	min. 6 mm
$C_b$	min. 8 mm
$r_a$	max. 6 mm
$r_b$	max. 2.5 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	246 kN
Basic static load rating	$C_0$	305 kN
Fatigue load limit	$P_u$	33.5 kN
Reference speed		3600 r/min
Limiting speed		4300 r/min
Calculation factor	$e$	0.44
Calculation factor	$Y$	1.35
Calculation factor	$Y_0$	0.8

## MASS

Mass bearing	2.14 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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