



# M 12649/610

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 12600



### DIMENSIONS

d	21.43 mm
D	50.005 mm
T	17.526 mm
d <sub>1</sub>	≈ 34.6 mm
B	18.288 mm
C	13.97 mm
r <sub>1,2</sub>	min. 1.3 mm
r <sub>3,4</sub>	min. 1.3 mm
a	10.745 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	max. 28 mm
d <sub>b</sub>	min. 28.5 mm
D <sub>a</sub>	min. 43 mm
D <sub>a</sub>	max. 43.5 mm



$D_b$	min. 46 mm
$C_a$	min. 3 mm
$C_b$	min. 3.5 mm
$r_a$	max. 1.3 mm
$r_b$	max. 1.3 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	45.4 kN
Basic static load rating	$C_0$	38 kN
Fatigue load limit	$P_u$	4.15 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Calculation factor	$e$	0.28
Calculation factor	$Y$	2.1
Calculation factor	$Y_0$	1.1

## MASS

Mass bearing	0.17 kg
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## More information

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

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