

# 6309 N

SKF Explorer

## Deep groove ball bearings

Bearing data

Tolerances,

Normal (metric), P6, P5, Normal (inch),

Radial internal clearance,

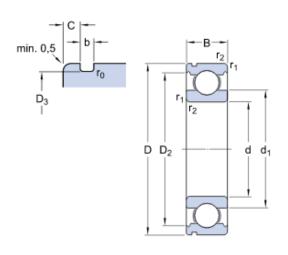
 $\label{eq:matched_pairs} \begin{tabular}{ll} Matched bearing pairs, Stainless steel \\ d < 10 mm, Other bearings \end{tabular}$ 

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fits

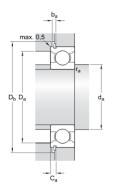
## Technical specification



#### **DIMENSIONS**

B 25 mm $d_1$ ≈ 62.18 mm $D_2$ ≈ 86.7 mm $D_3$ 96.8 mm $d_1$ 96.8 mm $d_2$ 7 mm $d_3$ 96.8 mm $d_3$ 96.8 mm $d_3$ 96.8 mm $d_3$ 96.8 mm $d_4$ 10.5 mm		d	45 mm
$d_1$ $\approx 62.18 \text{ mm}$ $D_2$ $\approx 86.7 \text{ mm}$ $D_3$ $96.8 \text{ mm}$ $b$ $2.7 \text{ mm}$ $C$ $3.28 \text{ mm}$ $r_0$ $max. 0.6 \text{ mm}$		D	100 mm
$D_2$ $\approx 86.7 \text{ mm}$ $D_3$ $96.8 \text{ mm}$ $c$ $e$		В	25 mm
D <sub>3</sub> 96.8 mm b 2.7 mm C 3.28 mm r <sub>0</sub> max. 0.6 mm		$d_1$	≈ 62.18 mm
b 2.7 mm C 3.28 mm r <sub>0</sub> max. 0.6 mm		$D_2$	≈ 86.7 mm
C 3.28 mm r <sub>0</sub> max. 0.6 mm		$D_3$	96.8 mm
r <sub>0</sub> max. 0.6 mm		b	2.7 mm
0		С	3.28 mm
r <sub>1,2</sub> min. 1.5 mm		$r_0$	max. 0.6 mm
		r <sub>1,2</sub>	min. 1.5 mm

#### ABUTMENT DIMENSIONS



$d_a$	min. 54 mm
$D_a$	max. 91 mm
$D_b$	min. 108 mm
b <sub>a</sub>	min. 3 mm
$C_a$	max. 5.74 mm
r <sub>a</sub>	max. 1.5 mm



### CALCULATION DATA

Basic dynamic load rating	С	55.3 kN
Basic static load rating	$C_0$	31.5 kN
Fatigue load limit	$P_{u}$	1.34 kN
Reference speed		15000 r/min
Limiting speed		9500 r/min
Calculation factor	k <sub>r</sub>	0.03
Calculation factor	$f_0$	13

### MASS

Mass bearing	0.83 kg
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### More information

Product details	Product details	Engineering ir	forn <del>Eadgiom</del> eering in	nformatoten	Tools
Single	Single			Bearing	Bearing
row deep	row deep	Principles	Principles	Select	Select
groove	groove	of rolling	of rolling		
ball	ball	bearing	bearing	SimPro	SimPro
bearings Stainless	bearings Stainless	-selection General	-selection General	Quick	Quick
steel	steel	bearing k	bearing k	Engineer	Engineer
deep	deep	nowledge	nowledge	ing Calcul	ing Calcul
groove	groove			ator	ator
ball	ball	Bearing	Bearing	LubeSele	LubeSele
bearings Single	bearings Single	selection	selection	ct for SKF	ct for SKF
row deep	row deep	process	process	greases	greases
groove	groove	Bearing	Bearing	Heater	Heater
ball	ball	interfaces	interfaces	selection	selection
bearings	bearings			tool	tool
with	with	Seat tole	Seat tole	Rolling	Rolling
filling	filling	rances	rances	bearings	bearings
Double slots	Double	for	for	mounting	mounting
row deep	row deep	standard	standard	and dism	and dism
groove	groove	condition	condition	ounting i	ounting i
ball	ball		Selecting	nstructio	nstructio
bearings Bearing	bearings Bearing	Selecting internal	internal	ns	ns
data	data	clearance	clearance		
		clearance	clearance		
Loads	Loads	Lubricati	Lubricati		
		on	on		
Tempera	Tempera				
ture	ture	Sealing,	Sealing,		
limits	limits	mounting	mounting		
Permissi	Permissi	and dism	and dism		
ble speed	ble speed	ounting	ounting		
		Bearing	Bearing		
Designati	Designati	failure	failure		
on	on	and how	and how		
system	system	to .	to		
		prevent it	prevent it		



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