21308 EK

SKF Explorer

Spherical roller bearings

Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

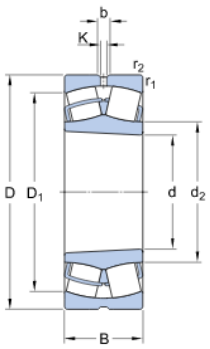
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard conditions,

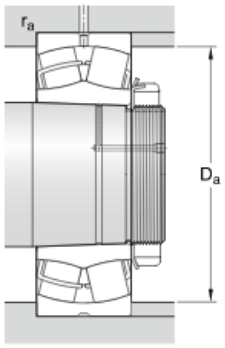
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	40 mm
D	90 mm
B	23 mm
d_2	≈ 60 mm
D_1	≈ 79.8 mm
b	5.5 mm
K	3 mm
$r_{1,2}$	min. 1.5 mm
Tapered bore, taper 1:12	



ABUTMENT DIMENSIONS

D_a	max. 81 mm
r_a	max. 1.5 mm

CALCULATION DATA

Basic dynamic load rating	C	107 kN
Basic static load rating	C_0	108 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		7000 r/min
Limiting speed		9500 r/min
Calculation factor	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8

MASS

Mass bearing	0.74 kg

MOUNTING INFORMATION

Recommended lock nut tightening angle	α	115 °

More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
Designs and variants	Designs and variants	Principles of rolling bearing selection	Principles of rolling bearing selection	SimPro Quick	SimPro Quick
Bearing data	Bearing data	General bearing knowledge	General bearing knowledge	Bearing Select	Bearing Select
Loads	Loads	Bearing selection process	Bearing selection process	Engineering Calculator	Engineering Calculator
Temperature limits	Temperature limits	Bearing failure and how to prevent it	Bearing failure and how to prevent it	Housing Select	Housing Select
Permissible speed	Permissible speed			LubeSelect for SKF greases	LubeSelect for SKF greases
Design considerations	Design considerations			Drive-up Method Program	Drive-up Method Program
Mounting	Mounting			Heater selection tool	Heater selection tool
Designation system	Designation system			Oil Injection Method Program	Oil Injection Method Program
				Rolling bearings mounting and dismounting instructions	Rolling bearings mounting and dismounting instructions
				Tool and Accessory Selector for sleeves and shafts	Tool and Accessory Selector for sleeves and shafts

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