



22316 EKJA/VA405

SKF Explorer

Spherical roller bearings

Bearing data

Tolerances,

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

Radial internal clearance,

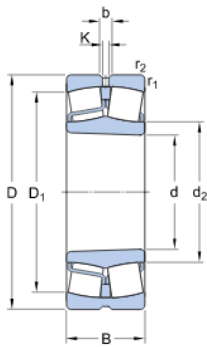
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard
conditions,

Tolerances and resultant fit

Technical specification

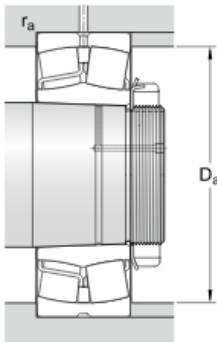


DIMENSIONS

d	80 mm
D	170 mm
B	58 mm
d ₂	≈ 98.3 mm
D ₁	≈ 143 mm
b	8.3 mm
K	4.5 mm
r _{1,2}	min. 2.1 mm
Tapered bore, taper 1:12	

ABUTMENT DIMENSIONS

D _a	max. 158 mm
r _a	max. 2 mm



CALCULATION DATA

Basic dynamic load rating	C	516 kN
Basic static load rating	C ₀	530 kN
Fatigue load limit	P _u	54 kN
Reference speed		3000 r/min
Limiting speed		4000 r/min
Calculation factor	e	0.35
Calculation factor	Y ₁	1.9
Calculation factor	Y ₂	2.9
Calculation factor	Y ₀	1.8
Permissible rotational acceleration (oil lubrication)		785 m/s
Permissible linear acceleration (oil lubrication)		216 m/s

MASS

Mass bearing		6.45 kg
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MOUNTING INFORMATION

Recommended lock nut tightening angle	α	130 °
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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			Engineering Calculator	Engineering Calculator
Temperature limits	Temperature limits	Bearing selection process	Bearing selection process	Housing Select	Housing Select
Permissible speed	Permissible speed	Bearing failure and how to prevent it	Bearing failure and how to prevent it	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 instruction	Rolling bearings mounting and dismounting instruction
				Cool and Accessory Selector for sleeves and shafts	Cool and Accessory Selector for sleeves and shafts

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