22317 EKJA/VA405

SKF Explorer

Spherical roller bearings

Bearing data

Tolerances,

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

Radial internal clearance,

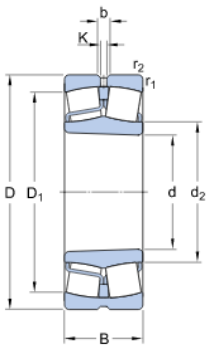
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard conditions,

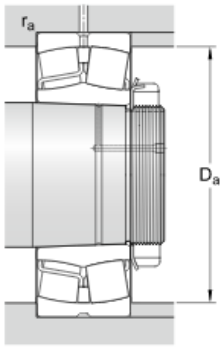
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	85 mm
D	180 mm
B	60 mm
d_2	≈ 108 mm
D_1	≈ 154 mm
b	8.3 mm
K	4.5 mm
$r_{1,2}$	min. 3 mm
Tapered bore, taper 1:12	



ABUTMENT DIMENSIONS

D_a	max. 166 mm
r_a	max. 2.5 mm

CALCULATION DATA

Basic dynamic load rating	C	577 kN
Basic static load rating	C_0	620 kN
Fatigue load limit	P_u	61 kN
Reference speed		2800 r/min
Limiting speed		3800 r/min
Calculation factor	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2
Permissible rotational acceleration (oil lubrication)		726 m/s
Permissible linear acceleration (oil lubrication)		206 m/s

MASS

Mass bearing	7.5 kg

MOUNTING INFORMATION

Recommended lock nut tightening angle	α	150 °

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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