

22311 EK/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

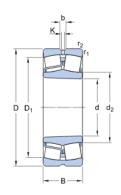
Bearing interfaces

Seat tolerances for standard

conditions,

Tolerances and resultant fit

Technical specification

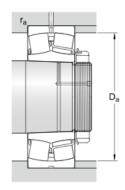


DIMENSIONS

d	55 mm
D	120 mm
В	43 mm
d_2	≈ 70.1 mm
D_1	≈ 102 mm
b	5.5 mm
K	3 mm
r _{1,2}	min. 2 mm
Tapered bore, taper 1:12	

ABUTMENT DIMENSIONS

D _a	max. 109 mm
r _a	max. 2 mm





CALCULATION DATA

Basic dynamic load rating	С	280 kN
Basic static load rating	C_0	280 kN
Fatigue load limit	P_{u}	30 kN
Reference speed		4300 r/min
Limiting speed		5600 r/min
Calculation factor	е	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)		765 m/s
Permissible linear acceleration (oil lubrication)		255 m/s

MASS

Mass bearing	2.4 kg
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MOUNTING INFORMATION

Recommended lock nut tightening angle	α	115°
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More information

Product details	Product details	Engineering in	forn Eantgion meering in	formTartoten	Tools
Designs and	Designs and	Principles	Principles	SimPro Quick	SimPro Quick
variants Bearing data	variants Bearing data	of rolling bearing -selection	of rolling bearing selection	Bearing Select	Bearing Select
Loads	Loads Tempera	General bearing k nowledge Bearing selection process	General bearing k nowledge Bearing selection process	Engineer ing Calcul ator	Engineer ing Calcul ator
ture limits	ture limits			Housing Select	Housing Select
Permissi ble speed	Permissi ble speed	Bearing failure	Bearing failure	LubeSele ct for SKF greases	LubeSele ct for SKF greases
Design c onsiderati ons	Design c onsiderati ons	and how to prevent it	and how to prevent it	Drive-up Method Program	Drive-up Method Program
Mounting	Mounting			Heater selection tool	Heater selection tool
Designati on system	Designati on system			Oil Injection Method Program Rolling bearings mounting and dism ounting i	Oil Injection Method Program Rolling bearings mounting and dism ounting i
				nstructio nsol and Accessory Selector for sleeves and shafts	nstructio nsool and Accessory Selector for sleeves and shafts





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