

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads



Overview

Dimensions

Bore diameter	90 mm
Outside diameter	160 mm
Width	30 mm
Contact angle	40 °

Performance

Basic dynamic load rating	116 kN
Basic static load rating	104 kN
Reference speed	5 000 r/min
Limiting speed	5 000 r/min
SKF performance class	SKF Explorer

Properties

Contact type	Normal contact (two-point contact)
Number of rows	1
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Non-metallic
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Light preload
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without

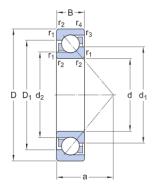


Sealing	Without
Lubricant	None
Relubrication feature	Without



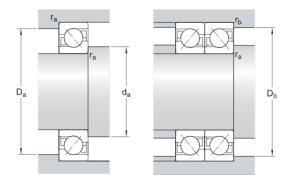
Technical Specification

SKF performance class SKF Explorer



Dimensions

d	90 mm	Bore diameter	
D	160 mm	Outside diameter	
В	30 mm	Width	
d ₁	≈ 117.1 mm	Shoulder diameter of inner ring (large side face) Shoulder diameter of inner ring (small side face) Shoulder diameter of outer ring (large side face)	
d ₂	≈ 103.06 mm		
D_1	≈ 134.8 mm		
а	67 mm	Distance side face to pressure point	
r _{1,2}	min. 2 mm	Chamfer dimension	
r _{3,4}	min. 1 mm	Chamfer dimension	



Abutment dimensions

d _a	min. 101 mm	Diameter of shaft abutment
D_a	max. 149 mm	Abutment diameter housing
D_b	max. 154 mm	Diameter of housing abutment
ra	max. 2 mm	Radius of fillet
r_b	max.1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	116 kN
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Basic static load rating	C_0		104 kN
Fatigue load limit	P_{u}		4 kN
Reference speed			5 000 r/min
Limiting speed			5 000 r/min
Minimum axial load factor	А		0.149
Minimum radial load factor	k _r		0.095
Limiting value	е		1.14
Single bearing or bearing pair arranged in tandem			
Calculation factor (single, tandem)		Χ	0.35
Calculation factor (single, tandem)		Y ₀	0.26
Calculation factor (single, tandem)		Y_2	0.57
Bearing pair arranged back-to-back or face-to-face			
Calculation factor (back-to-back, face-to-face)		Χ	0.57
Calculation factor (back-to-back, face-to-face)		Y_0	0.52
Calculation factor (back-to-back, face-to-face)		Y_1	0.55
Calculation factor (back-to-back, face-to-face)		Y ₂	0.93
Mass			

М	2.3 kg



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