SKF NCF 3006 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

Technical specifications

Dimensions	
Bore diameter	30 mm
Outside diameter	55 mm
Width	19 mm
Shoulder diameter inner ring	40 mm
Shoulder diameter outer ring	45 mm
Raceway diameter outer ring	49.6 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	2 mm
Chamfer dimension	1 mm
Chamfer dimension	0.3 mm
	Parameter r3.4 has either the value specified here or the same value as r1.2.

Abutment dimensions	
Abutment diameter shaft	35 mm
Abutment diameter shaft	37.8 mm
Abutment diameter housing	50 mm
Abutment diameter housing	52 mm
Fillet radius	1 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	39.6 kN
Basic static load rating	44 kN
Fatigue load limit	5 kN
Reference speed	6000 r/min
Limiting speed	7500 r/min
Calculation factor	0.3
Limiting value	0.3
Calculation factor	0.4

Performance	
Basic dynamic load rating	39.6 kN
Basic static load rating	44 kN
Reference speed	6000 r/min
Limiting speed	7500 r/min

Properties	
Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Without
Design	Non-separable
Number of flanges, outer ring	1
Number of flanges, inner ring	2

Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	0.68 kg CO₂e

Logistics	
Product net weight	0.188 kg
UNSPSC code	31171505

SKF drawings