



SKF NCF 3004 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	20 mm
Outside diameter	42 mm
Width	16 mm
Shoulder diameter inner ring	29 mm
Shoulder diameter outer ring	33 mm
Raceway diameter outer ring	36.81 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	1.5 mm
Chamfer dimension	0.6 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	24 mm
Abutment diameter shaft	26.9 mm
Abutment diameter housing	38 mm
Abutment diameter housing	39 mm
Fillet radius	0.6 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	28.1 kN
Basic static load rating	28.5 kN
Fatigue load limit	3.1 kN
Reference speed	8500 r/min
Limiting speed	10000 r/min
Calculation factor	0.3
Limiting value	0.3
Calculation factor	0.4

Performance	
Basic dynamic load rating	28.1 kN
Basic static load rating	28.5 kN
Reference speed	8500 r/min
Limiting speed	10000 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	0.38 kg CO ₂ e

Logistics	
Product net weight	0.106 kg
UNSPSC code	31171505

SKF drawings