SKF NCF 2934 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	170 mm
Outside diameter	230 mm
Width	36 mm
Shoulder diameter inner ring	191 mm
Shoulder diameter outer ring	211 mm
Raceway diameter outer ring	218 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	2.5 mm
Chamfer dimension	2 mm
Chamfer dimension	1.1 mm

Abutment dimensions	
Abutment diameter shaft	179 mm
Abutment diameter shaft	188 mm
Abutment diameter housing	221 mm
Abutment diameter housing	223 mm
Fillet radius	2 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	314 kN
Basic static load rating	560 kN
Fatigue load limit	60 kN
Reference speed	1200 r/min
Limiting speed	1500 r/min
Calculation factor	0.2
Limiting value	0.3
Calculation factor	0.4

Performance	
Basic dynamic load rating	314 kN
Basic static load rating	560 kN
Reference speed	1200 r/min
Limiting speed	1500 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	14.4 kg CO₂e

Logistics	
Product net weight	4 kg
eClass code	23-05-09-01
UNSPSC code	31171505

SKF drawings