



SKF NU 220 ECM/C3VL0241

INSOCOAT single row cylindrical roller bearing, NU design

INSOCOAT single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. The applied electrically insulating coating on the outside surfaces of the outer or inner ring prevents electric current from passing through the bearings. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

Technical specifications

Dimensions	
Bore diameter	100 mm
Outside diameter	180 mm
Width	34 mm
Shoulder diameter outer ring	157 mm
Raceway diameter inner ring	119 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	1.7 mm
Chamfer dimension	2.1 mm
Chamfer dimension	2.1 mm

Abutment dimensions	
Abutment diameter shaft	112 mm
Abutment diameter shaft	116 mm
Abutment diameter shaft	122 mm
Abutment diameter shaft	161.5 mm
Abutment diameter housing	168 mm
Fillet radius	2 mm
Fillet radius	2 mm

Calculation data	
Basic dynamic load rating	285 kN
Basic static load rating	305 kN
Fatigue load limit	36.5 kN
Reference speed	4000 r/min
Limiting speed	4500 r/min
Calculation factor	0.15

Performance	
Basic dynamic load rating	285 kN
Basic static load rating	305 kN
Reference speed	4000 r/min
Limiting speed	4500 r/min

Properties	
Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined brass
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	C3
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Insulation coating on outer ring

Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	14.1 kg CO ₂ e

Logistics	
Product net weight	3.92 kg
eClass code	23-05-09-01
UNSPSC code	31171537

SKF drawings