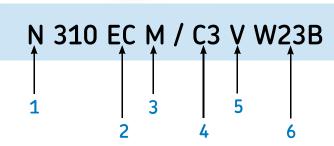


# Cylindrical roller bearings



# 1. Basic design:

N Two integral flanges on inner ring, flangeless outer ring

NU Two integral flanges on outer ring, flangeless inner ring

NJ One flange on inner ring, two flanges on outer ring

NUP Two integral flanges on outer ring, one integral flange on inner ring and one loose flange on inner ring

NCF Full complement, two flanges on inner ring, one flange on outer ring, with snap ring

NJG Full complement with one flange on inner ring, and two flanges on outer ring

NNCF Two-row, full complement, three flanges on inner ring, one flange on outer ring, with snap ring

NNF Two-row, full complement

NNCL Double row CRB with no outer ring integral flanges, only one centrally located snap ring

NNC Double row CRB with one outer ring integral flange and one flange ring

**HJ** Angle ring

Separate inner or outer ring of a separable bearing

Inner or outer ring with roller and cage assembly of a separable bearing

#### 2. Internal design:

Increased capacity plus improved roller end to flange contact

CV Modified internal design, full complement roller set

# 4. Radial internal clearance:

C1 Clearance < C2

C2 Clearance < Normal

(CO)\* Normal internal clearance

C3 Clearance > Normal
C4 Clearance > C3

\* Not marked on bearing or package

#### 3. Cage designs:

M Two piece machined brass cage, rolling element guided

MA Two piece machined brass cage, outer ring flange guided

MB Machined brass cage, inner ring flange guided

ML/MP One piece window-type brass cage, inner or outer ring centered

M2 Solid brass drilled cage, roller guided for traction motor bearings

**HB1** Bainite hardened inner and outer ring

Pressed steel cage, rolling element guided

P Molded glass fiber reinforced polyamide 6.6 cage,

roller centered

Injection molded cage of

PHA

polyetheretherketone (PEEK), outer ring centered

#### 5. Variations:

C Surface treated rollers
CV V + surface treated rollers
V Full complement bearing without cage
VH Full complement rollers (no cage), self-retaining
2LS Two land riding contact seals

## 6. Special features:

W23B Special features for traction motor bearings

VA301 Special bearing specifications for traction motors

VL0241 INSOCOAT® coating on outer ring for electrical

insulation

W64 Solid Oil lubricants



R

# **Technical features**

**Boundary dimensions** In accordance with ISO 15

**Tolerances** ABMA RBEC 3, ISO P6 running accuracy

ABMA RBEC 1, ISO Normal dimensional

**Heat stabilization** 302° F (150° C)

**Misalignment** 4 minutes of arc for series N200, 300, 400,

1000 and 1800

3 minutes of arc for series N2200, 2300,

2900 and 3000

Cage material

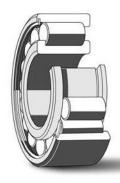
Standard Molded glass fiber reinforced polyamide (P)
Optional Machined brass (M) and pressed steel (J)

Axial load - max Contact SKF Applications Engineering

**Seals** 2LS seals on NNF series only



Single row cylindrical roller bearing (data tables on page 138)



Full complement, single row cylindrical roller bearing (data tables on page 146)

