



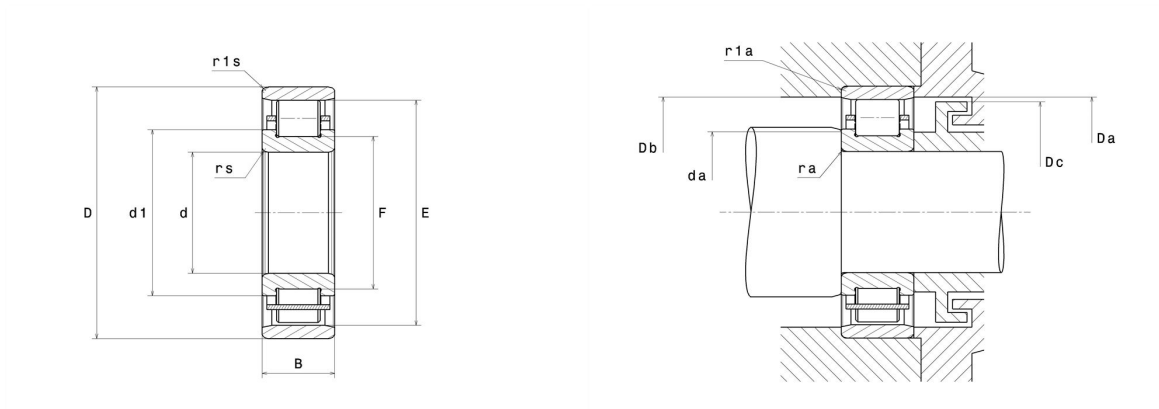
Technical datasheet

N210C3

Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, pressed steel cage

Visual(s)



Product definition

d	50 mm
D	90 mm
B	20 mm
E	80.4 mm
F	60.4 mm
d1	64.6 mm
rs min	1.1 mm
r1s min	1.1 mm
Radial clearance class	C3
Mass (without HJ ring)	0.5 kg
Brand	NTN

Product performance

Dynamic load, C	48 kN
Static load, C0	51 kN
Fatigue limit load, Cu	6.2 kN
Nlim (oil)	9,000 rpm
Nlim (grease)	7,600 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.9 Hz
Characteristic outer ring frequency, BPF0	6.44 Hz
Characteristic inner ring frequency, BPFI	8.56 Hz

Abutment dimensions

da min	56.5 mm
Da max	83.5 mm
Db min	82.8 mm
Dc max	78.8 mm
ra max	1 mm
r1a max	1 mm

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$