Technical datasheet

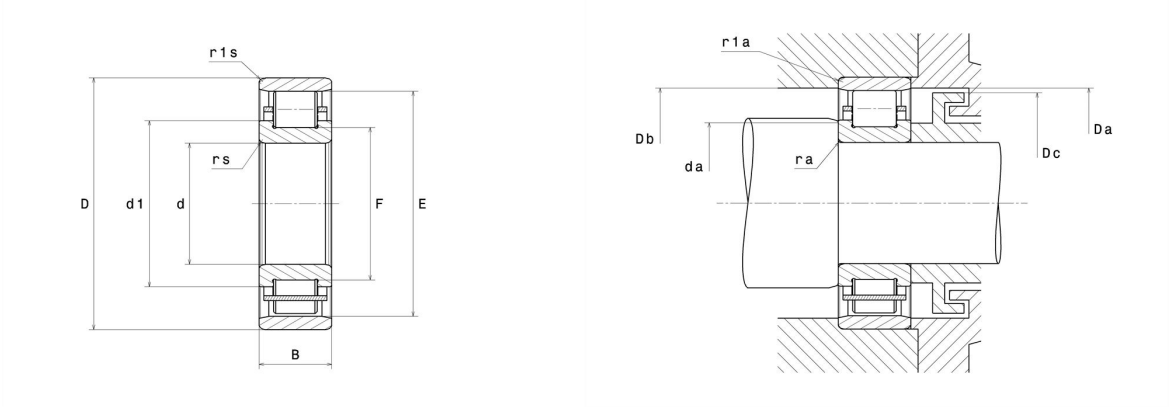
N220C3

Single row cylindrical roller bearings



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

Visual(s)



Product definition

d	100 mm
D	180 mm
B	34 mm
E	160 mm
F	120 mm
d1	128 mm
rs min	2.1 mm
r1s min	2.1 mm
Radial clearance class	C3
Mass (without HJ ring)	3.32 kg
Brand	NTN

Product performance

Dynamic load, C	183 kN
Static load, C0	217 kN
Fatigue limit load, Cu	23.9 kN
Nlim (oil)	4,500 rpm
Nlim (grease)	3,800 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	6.86 Hz
Characteristic outer ring frequency, BPF0	6.86 Hz
Characteristic inner ring frequency, BPFI	9.14 Hz

Abutment dimensions

da min	111 mm
Da max	169 mm
Db min	163 mm
Dc max	158 mm
ra max	2 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$Po = Fr$