Technical data

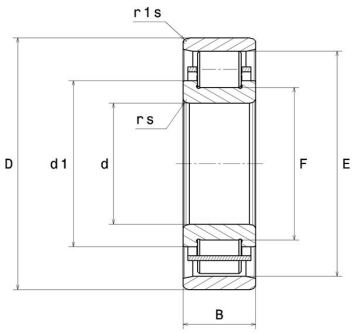
N209

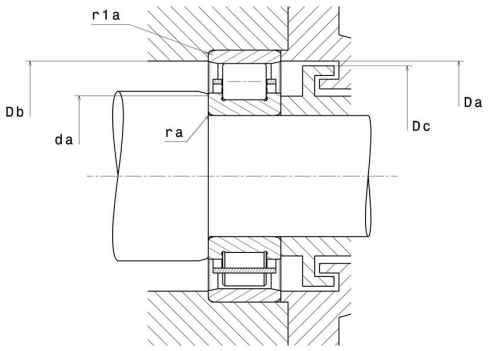
Single row cylindrical roller bearings

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



Visual(s)





Product definition

d	45 mm
D	85 mm
B	19 mm
E	75 mm
F	55 mm
d1	59 mm
rs min	1.1 mm
r1s min	1.1 mm
Radial clearance class	CN
Mass (without HJ ring)	0.42 kg
Brand	NTN

Product performance

Dynamic load, C	46 kN
Static load, C0	47 kN
Fatigue limit load, Cu	5.7 kN
Nlim (oil)	9,900 Tr/min
Nlim (grease)	8,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.35 Hz
Characteristic outer ring frequency, BPF0	5.92 Hz
Characteristic inner ring frequency, BPFI	8.08 Hz

Abutment dimensions

da min	51.5 mm
Da max	78.5 mm
Db min	76 mm
Dc max	73 mm
ra max	1 mm
r1a max	1 mm

Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$P_0 = Fr$