

PDF technical sheet

N319



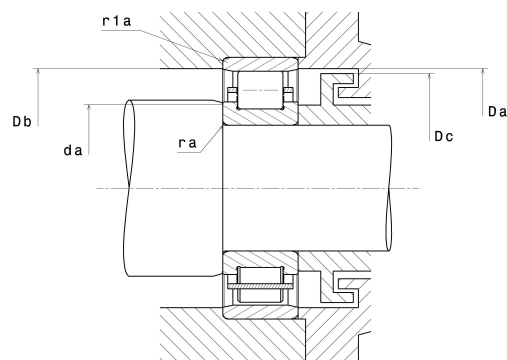
Single row cylindrical roller bearings

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

Product definition	
d	3.7402 "
D	7.8740 "
B	1.7717 "
E	6.8307 "
F	4.7835 "
d1	5.1969 "
rs min	0.1181 "
r1s min	0.1181 "
Radial clearance class	CN
Mass (without HJ ring)	22.08 oz
Brand	NTN



Product performance	
Dynamic load, C	259 kN
Static load, C0	285 kN
Fatigue limit load, Cu	30.90 kN
Nlim (oil)	4,000 RPM
Nlim (grease)	3,400 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.50 Hz
Characteristic outer ring frequency, BPF0	5.35 Hz
Characteristic inner ring frequency, BPF1	7.65 Hz



Abutment dimensions	
da min	4.2520 "
Da max	7.3622 "
Db min	6.9291 "
Dc max	6.7323 "
ra max	0.0984 "
r1a max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$