

PDF technical sheet NJ319C3



Single row cylindrical roller bearings

Single row cylindrical roller bearing, single direction for axial loads, 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	C3
Mass (without HJ ring)	22.33 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	4.6850 "
dc min	5.2756 "
Da max	7.3622 "
ra max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$