

PDF technical sheet NJ311



Single row cylindrical roller bearings

Single row cylindrical roller bearing, single direction for axial loads, separable, pressed steel cage.

Product definition	
d	2.1654 "
D	4.7244 "
B	1.1417 "
E	4.1142 "
F	2.7756 "
d1	3.0394 "
rs min	0.0787 "
r1s min	0.0787 "
Radial clearance class	CN
Mass (without HJ ring)	5.34 oz
Brand	NTN



Product performance	
Dynamic load, C	111 kN
Static load, C0	111 kN
Fatigue limit load, Cu	13.50 kN
Nlim (oil)	7,000 RPM
Nlim (grease)	5,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions	
da min	2.5197 "
da max	2.7165 "
dc min	3.1496 "
Da max	4.3701 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$