

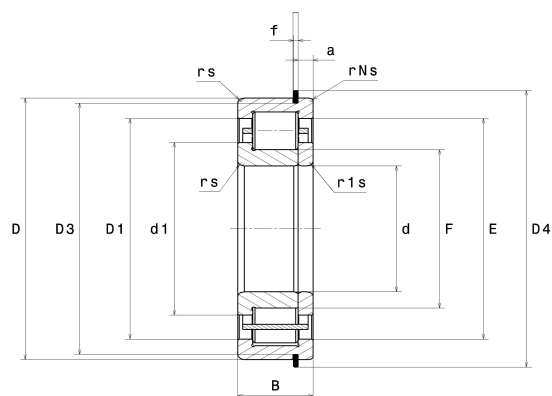
PDF technical sheet NUP311NRC3



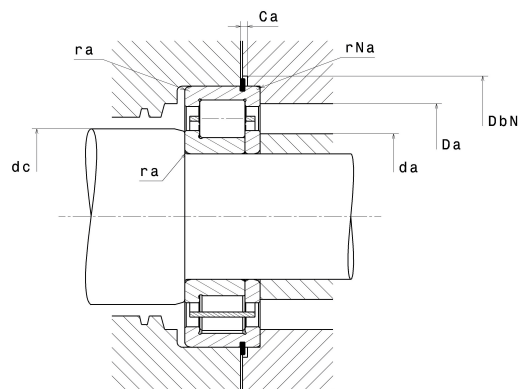
Single row cylindrical roller bearings

Single row cylindrical roller bearing with snap ring, separable, locating, pressed steel cage

Product definition	
d	2.1654 "
D	4.7244 "
B	1.1417 "
E	4.1142 "
F	2.7756 "
d1	3.0394 "
a min	0.1520 "
a max	0.1598 "
Ca min	0.2591 "
Ca max	0.2709 "
rNs min	0.0197 "
D3 max	4.5358 "
b min	0.1220 "
b max	0.1339 "
r0 max	0.0236 "
D4 max	5.1063 "
f	0.1110 "
Snap ring reference	R120
rs min	0.0787 "
r1s min	0.0787 "
Radial clearance class	C3
Mass (without HJ ring)	5.48 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 "
dc min	3.1496 "
Da max	4.3701 "
DbN min	5.1772 "
ra max	0.0787 "
rNa max	0.0197 "

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$