

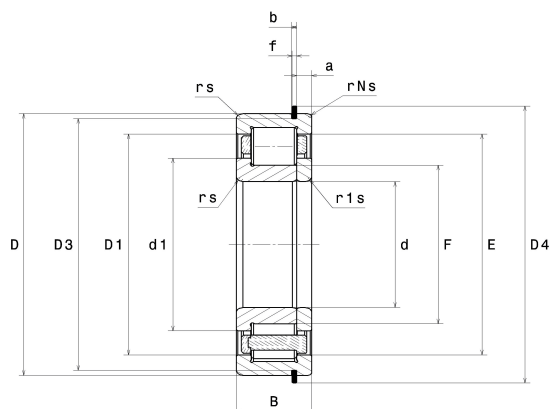
PDF technical sheet NUP310EG1NR



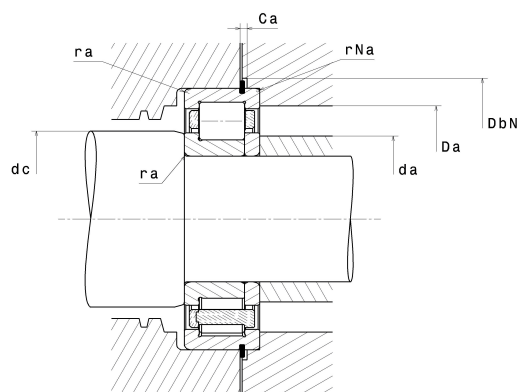
Single row cylindrical roller bearings

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

Product definition	
d	1.9685 "
D	4.3307 "
B	1.0630 "
E	3.8189 "
F	2.5591 "
d1	2.8110 "
a min	0.1209 "
a max	0.1291 "
Ca min	0.2138 "
Ca max	0.2260 "
rNs min	0.0197 "
D3 max	4.2051 "
b min	0.1063 "
b max	0.1181 "
r0 max	0.0236 "
D4 max	4.5906 "
f	0.0969 "
Snap ring reference	R110
rs min	0.0787 "
r1s min	0.0787 "
Radial clearance class	CN
Mass (without HJ ring)	4.55 oz
Brand	NTN



Product performance	
Dynamic load, C	110 kN
Static load, C0	113 kN
Fatigue limit load, Cu	13.80 kN
Nlim (oil)	6,900 RPM
Nlim (grease)	5,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.87 Hz
Characteristic outer ring frequency, BPF0	5.22 Hz
Characteristic inner ring frequency, BPF1	7.78 Hz



Abutment dimensions

da min	2.3228 "
dc min	2.8740 "
Da max	3.9764 "
DbN min	4.6457 "
ra max	0.0787 "
rNa max	0.0197 "

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$