

PDF technical sheet NUP311EG1C3



Single row cylindrical roller bearings

Single row cylindrical roller bearing, locating, separable, brass cage

Product definition	
d	2.1654 "
D	4.7244 "
B	1.1417 "
E	4.1929 "
F	2.7756 "
d1	3.0591 "
rs min	0.0787 "
r1s min	0.0787 "
Radial clearance class	C3
Mass (without HJ ring)	5.64 oz
Brand	NTN



Product performance	
Dynamic load, C	137 kN
Static load, C0	143 kN
Fatigue limit load, Cu	17.40 kN
Nlim (oil)	6,300 RPM
Nlim (grease)	5,300 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	4.71 Hz
Characteristic outer ring frequency, BPF0	5.18 Hz
Characteristic inner ring frequency, BPF1	7.82 Hz



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

Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$