

PDF technical sheet N238



Single row cylindrical roller bearings

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

Product definition	
d	7.4803 "
D	13.3858 "
B	2.1654 "
E	11.7717 "
F	9.0945 "
d1	9.6260 "
rs min	0.1575 "
r1s min	0.1575 "
Radial clearance class	CN
Mass (without HJ ring)	74.53 oz
Brand	NTN



Product performance	
Dynamic load, C	555 kN
Static load, C0	770 kN
Fatigue limit load, Cu	70.10 kN
Nlim (oil)	2,200 RPM
Nlim (grease)	1,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.67 Hz
Characteristic outer ring frequency, BPF0	8.28 Hz
Characteristic inner ring frequency, BPF1	10.72 Hz



Abutment dimensions	
da min	8.1102 "
Da max	12.7559 "
Db min	11.9291 "
Dc max	11.6535 "
ra max	0.1181 "
r1a max	0.1181 "

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$P_0 = Fr$$