

PDF technical sheet 32920XU



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	3.9370 "
D	5.5118 "
B	0.9843 "
C	0.7874 "
T	0.9843 "
d1	4.7244 "
a	0.9646 "
rs min	0.0591 "
r1s min	0.0591 "
e	0.33
Y2	1.82
Y0	1
Mass	4.02 oz
ISO 355 reference	T2CC100
Brand	NTN



Product performance	
Dynamic load, C	121 kN
Rating life coefficient, A2	1
Static load, C0	206 kN
Fatigue limit load, Cu	23.70 kN
Nlim (oil)	3,200 RPM
Nlim (grease)	2,400 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	12.36 Hz
Characteristic outer ring frequency, BPF0	14.74 Hz
Characteristic inner ring frequency, BPFI	17.26 Hz



Abutment dimensions

da max	4.2323 "
db min	4.2717 "
Da min	5.0197 "
Da max	5.1772 "
Db min	5.3346 "
Ca min	0.1575 "
Cb min	0.1969 "
ra max	0.0591 "
r1a max	0.0591 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y0

If $P_0 \leq F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table