

PDF technical sheet

32917XU



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	3.3465 "
D	4.7244 "
B	0.9055 "
C	0.7087 "
T	0.9055 "
d1	4.0354 "
a	0.8268 "
rs min	0.0591 "
r1s min	0.0591 "
e	0.33
Y2	1.83
Y0	1.01
Mass	2.73 oz
ISO 355 reference	T2BC085
Brand	NTN



Product performance	
Dynamic load, C	94 kN
Rating life coefficient, A2	1
Static load, C0	157 kN
Fatigue limit load, Cu	19 kN
Nlim (oil)	3,800 RPM
Nlim (grease)	2,800 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	12.27 Hz
Characteristic outer ring frequency, BPF0	14.27 Hz
Characteristic inner ring frequency, BPFI	16.73 Hz



Abutment dimensions

da max	3.6220 "
db min	3.6811 "
Da min	4.3701 "
Da max	4.3898 "
Db min	4.5276 "
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

$$P_o = X_o.F_r + Y_o.F_a$$

X_o	Y_o
0.5	Y0

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

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