

PDF technical sheet

32052XU



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	10.2362 "
D	15.7480 "
B	3.4252 "
C	2.5591 "
T	3.4252 "
d1	13.0512 "
a	3.3661 "
rs min	0.1969 "
r1s min	0.1575 "
e	0.43
Y2	1.38
Y0	0.76
Mass	138.98 oz
ISO 355 reference	T4FC260
Brand	NTN



Product performance	
Dynamic load, C	1,200 kN
Rating life coefficient, A2	1
Static load, C0	2,270 kN
Fatigue limit load, Cu	193 kN
Nlim (oil)	1,100 RPM
Nlim (grease)	800 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.59 Hz
Characteristic outer ring frequency, BPF0	12.61 Hz
Characteristic inner ring frequency, BPFI	15.39 Hz



Abutment dimensions

da max	11.2992 "
db min	11.1024 "
Da min	13.8583 "
Da max	15.0394 "
Db min	15.0787 "
Ca min	0.5512 "
Cb min	0.8661 "
ra max	0.1575 "
r1a max	0.1181 "

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