

PDF technical sheet 32056XU



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	11.0236 "
D	16.5354 "
B	3.4252 "
C	2.5591 "
T	3.4252 "
d1	13.8189 "
a	3.5630 "
rs min	0.1969 "
r1s min	0.1575 "
e	0.46
Y2	1.31
Y0	0.72
Mass	147.45 oz
ISO 355 reference	T4FC280
Brand	NTN



Product performance	
Dynamic load, C	1,220 kN
Rating life coefficient, A2	1
Static load, C0	2,350 kN
Fatigue limit load, Cu	197 kN
Nlim (oil)	980 RPM
Nlim (grease)	740 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	10.14 Hz
Characteristic outer ring frequency, BPF0	13.14 Hz
Characteristic inner ring frequency, BPFI	15.86 Hz



Abutment dimensions

da max	12.0079 "
db min	11.8898 "
Da min	14.5669 "
Da max	15.8268 "
Db min	15.8268 "
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