

PDF technical sheet

32972XU



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	14.1732 "
D	18.8976 "
B	2.9921 "
C	2.2441 "
T	2.9921 "
d1	16.6142 "
a	3.7992 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.46
Y2	1.31
Y0	0.72
Mass	129.10 oz
ISO 355 reference	T4FD360
Brand	NTN



Product performance	
Dynamic load, C	1,050 kN
Rating life coefficient, A2	1
Static load, C0	2,330 kN
Fatigue limit load, Cu	185 kN
Nlim (oil)	780 RPM
Nlim (grease)	590 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.47 Hz
Characteristic outer ring frequency, BPF0	18.22 Hz
Characteristic inner ring frequency, BPFI	20.78 Hz



Abutment dimensions

da max	15.0000 "
db min	14.8819 "
Da min	17.1654 "
Da max	18.3465 "
Db min	18.3465 "
Ca min	0.5118 "
Cb min	0.7480 "
ra max	0.1181 "
r1a max	0.0984 "

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