

PDF technical sheet 32932XUP5



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	6.6929 "
D	9.0551 "
B	1.4961 "
C	1.1811 "
T	1.4961 "
d1	7.8937 "
a	1.6732 "
rs min	0.0984 "
r1s min	0.0787 "
e	0.38
Y2	1.57
Y0	0.86
Mass	15.52 oz
ISO 355 reference	T3DC170
Brand	NTN



Product performance	
Dynamic load, C	286 kN
Rating life coefficient, A2	1
Static load, C0	560 kN
Fatigue limit load, Cu	55.50 kN
Nlim (oil)	1,800 RPM
Nlim (grease)	1,400 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	13.78 Hz
Characteristic outer ring frequency, BPF0	16.74 Hz
Characteristic inner ring frequency, BPFI	19.26 Hz



Abutment dimensions

da max	7.2047 "
db min	7.1654 "
Da min	8.3858 "
Da max	8.6614 "
Db min	8.7402 "
Ca min	0.2756 "
Cb min	0.3150 "
ra max	0.0787 "
r1a max	0.0787 "

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