

PDF technical sheet 32968XU



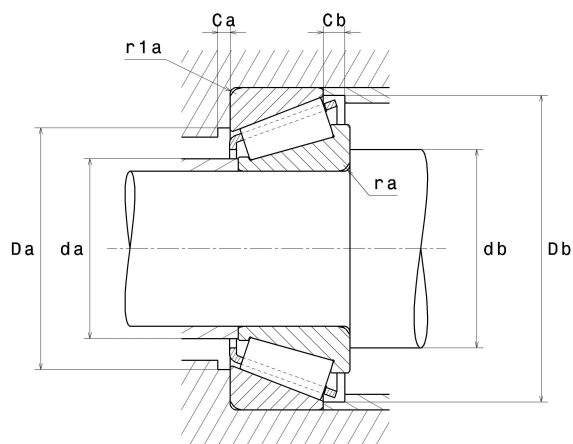
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	13.3858 "
D	18.1102 "
B	2.9921 "
C	2.2441 "
T	2.9921 "
d1	15.7874 "
a	3.5630 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.44
Y2	1.37
Y0	0.75
Mass	123.11 oz
ISO 355 reference	T4FD340
Brand	NTN



Product performance	
Dynamic load, C	1,040 kN
Rating life coefficient, A2	1
Static load, C0	2,270 kN
Fatigue limit load, Cu	183 kN
Nlim (oil)	840 RPM
Nlim (grease)	630 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	13.80 Hz
Characteristic outer ring frequency, BPF0	17.68 Hz
Characteristic inner ring frequency, BPFI	20.32 Hz



Abutment dimensions

da max	14.2520 "
db min	14.0945 "
Da min	16.4173 "
Da max	17.5591 "
Db min	17.5591 "
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