

PDF technical sheet 30222U



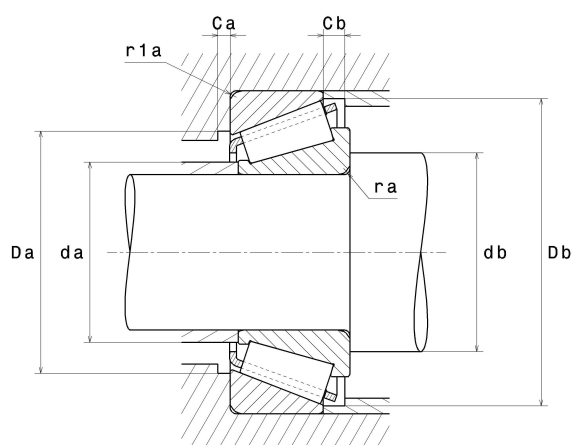
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	4.3307 "
D	7.8740 "
B	1.4961 "
C	1.2598 "
T	1.6142 "
a	1.5748 "
rs min	0.0984 "
r1s min	0.0787 "
e	0.42
Y2	1.43
Y0	0.79
Mass	18.27 oz
ISO 355 reference	T3FB110
Brand	NTN



Product performance	
Dynamic load, C	325 kN
Rating life coefficient, A2	1
Static load, C0	435 kN
Nlim (oil)	2,400 RPM
Nlim (grease)	1,800 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	4.8819 "
db min	5.0787 "
Da max	7.4016 "
Db min	7.4016 "
ra max	0.0984 "
r1a max	0.0787 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

Fa / Fr ≤ e		Fa / Fr > 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 $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table