

PDF technical sheet 30221U



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	4.1339 "
D	7.4803 "
B	1.4173 "
C	1.1811 "
T	1.5354 "
a	1.4961 "
rs min	0.0984 "
r1s min	0.0787 "
e	0.42
Y2	1.43
Y0	0.79
Mass	15.49 oz
ISO 355 reference	T3FB105
Brand	NTN



Product performance	
Dynamic load, C	287 kN
Rating life coefficient, A2	1
Static load, C0	380 kN
Nlim (oil)	2,500 RPM
Nlim (grease)	1,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	4.6850 "
db min	4.8031 "
Da max	7.0079 "
Db min	7.0079 "
ra max	0.0984 "
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 $P_0 < F_r$, then use $P_0 = F_r$

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