

PDF technical sheet 4T33005



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	0.9843 "
D	1.8504 "
B	0.6693 "
C	0.5512 "
T	0.6693 "
a	0.4331 "
rs min	0.0236 "
r1s min	0.0236 "
e	0.29
Y2	2.07
Y0	1.14
Mass	0.46 oz
ISO 355 reference	T2CE025
Brand	NTN



Product performance	
Dynamic load, C	32.50 kN
Rating life coefficient, A2	1.4
Static load, C0	40.50 kN
Fatigue limit load, Cu	4.95 kN
Nlim (oil)	11,000 RPM
Nlim (grease)	8,000 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	1.1614 "
db min	1.1417 "
Da max	1.6732 "
Db min	1.7126 "
ra max	0.0236 "
r1a max	0.0236 "

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