

PDF technical sheet 32909XU



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	1.7717 "
D	2.6772 "
B	0.5906 "
C	0.4724 "
T	0.5906 "
a	0.4724 "
rs min	0.0236 "
r1s min	0.0236 "
e	0.32
Y2	1.88
Y0	1.04
Mass	0.66 oz
ISO 355 reference	T2BC045
Brand	NTN



Product performance	
Dynamic load, C	33.50 kN
Rating life coefficient, A2	1
Static load, C0	51.50 kN
Fatigue limit load, Cu	6.30 kN
Nlim (oil)	7,000 RPM
Nlim (grease)	5,300 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	1.9685 "
db min	1.9685 "
Da max	2.5000 "
Db min	2.5394 "
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