

PDF technical sheet 4T32203RU70



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	0.6693 "
D	1.5748 "
B	0.6299 "
C	0.5512 "
T	0.6791 "
d1	1.1220 "
a	0.4331 "
rs min	0.0394 "
r1s min	0.0394 "
e	0.35
Y2	1.74
Y0	0.96
Mass	0.37 oz
ISO 355 reference	T2DD017
Brand	NTN



Product performance	
Dynamic load, C	26.20 kN
Rating life coefficient, A2	1.4
Static load, C0	28.20 kN
Fatigue limit load, Cu	3.45 kN
Nlim (oil)	13,000 RPM
Nlim (grease)	9,900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.28 Hz
Characteristic outer ring frequency, BPF0	6.16 Hz
Characteristic inner ring frequency, BPFI	8.84 Hz



Abutment dimensions

da max	0.8858 "
db min	0.8661 "
Da max	1.3583 "
Db min	1.4370 "
ra max	0.0394 "
r1a max	0.0394 "

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

$$P_o = X_o.F_r + Y_o.F_a$$

X ₀	Y ₀
0.5	Y0

If $P_o < F_r$, then use $P_o = F_r$

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