

PDF technical sheet 32230U



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	5.9055 "
D	10.6299 "
B	2.8740 "
C	2.3622 "
T	3.0315 "
d1	8.1693 "
a	2.5394 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.44
Y2	1.38
Y0	0.76
Mass	64.20 oz
ISO 355 reference	T4GD150
Brand	NTN



Product performance	
Dynamic load, C	700 kN
Rating life coefficient, A2	1
Static load, C0	1,070 kN
Fatigue limit load, Cu	105 kN
Nlim (oil)	1,700 RPM
Nlim (grease)	1,300 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.90 Hz
Characteristic outer ring frequency, BPF0	8.20 Hz
Characteristic inner ring frequency, BPFI	10.80 Hz



Abutment dimensions

da max	6.6929 "
db min	6.6142 "
Da min	8.8976 "
Da max	10.0787 "
Db min	10.0000 "
Ca min	0.3150 "
Cb min	0.6693 "
ra max	0.1181 "
r1a max	0.0984 "

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 $P_0 \leq F_r$, then use $P_0 = F_r$

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