

PDF technical sheet

32038XUE1



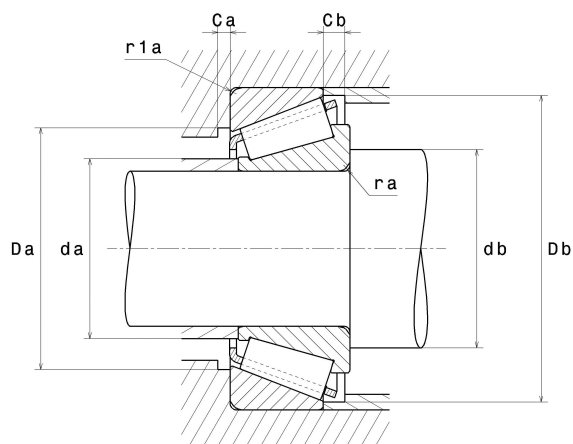
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	7.4803 "
D	11.4173 "
B	2.5197 "
C	1.8898 "
T	2.5197 "
d1	9.5276 "
a	2.4606 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.44
Y2	1.36
Y0	0.75
Mass	53.26 oz
ISO 355 reference	T4FD190
Brand	NTN



Product performance	
Dynamic load, C	655 kN
Rating life coefficient, A2	1
Static load, C0	1,210 kN
Fatigue limit load, Cu	113.30 kN
Nlim (oil)	1,500 RPM
Nlim (grease)	1,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.07 Hz
Characteristic outer ring frequency, BPF0	13.13 Hz
Characteristic inner ring frequency, BPFI	15.87 Hz



Abutment dimensions

da max	8.2283 "
db min	8.0315 "
Da min	10.1181 "
Da max	10.9449 "
Db min	10.9843 "
Ca min	0.3937 "
Cb min	0.6299 "
ra max	0.0984 "
r1a max	0.0787 "

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

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