

PDF technical sheet

32948XU



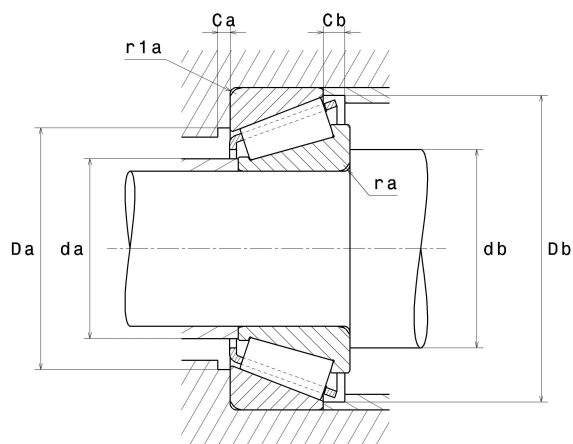
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	9.4488 "
D	12.5984 "
B	2.0079 "
C	1.5354 "
T	2.0079 "
d1	11.0827 "
a	2.5787 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.46
Y2	1.31
Y0	0.72
Mass	38.45 oz
ISO 355 reference	T4EC240
Brand	NTN



Product performance	
Dynamic load, C	490 kN
Rating life coefficient, A2	1
Static load, C0	1,000 kN
Fatigue limit load, Cu	89.50 kN
Nlim (oil)	1,200 RPM
Nlim (grease)	940 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.23 Hz
Characteristic outer ring frequency, BPF0	17.26 Hz
Characteristic inner ring frequency, BPFI	19.74 Hz



Abutment dimensions

da max	10.0000 "
db min	10.0000 "
Da min	11.4173 "
Da max	12.1260 "
Db min	12.2441 "
Ca min	0.3937 "
Cb min	0.4724 "
ra max	0.0984 "
r1a max	0.0787 "

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

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