

PDF technical sheet 32048XU



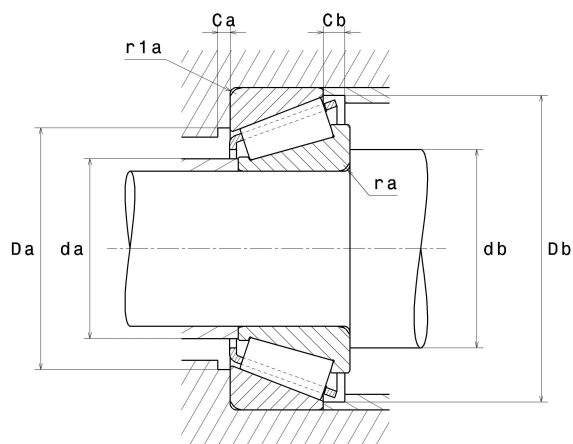
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	9.4488 "
D	14.1732 "
B	2.9921 "
C	2.2441 "
T	2.9921 "
d1	11.8701 "
a	3.0709 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.46
Y2	1.31
Y0	0.72
Mass	94.53 oz
ISO 355 reference	T4FD240
Brand	NTN



Product performance	
Dynamic load, C	930 kN
Rating life coefficient, A2	1
Static load, C0	1,760 kN
Fatigue limit load, Cu	154 kN
Nlim (oil)	1,200 RPM
Nlim (grease)	870 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	10.14 Hz
Characteristic outer ring frequency, BPF0	13.14 Hz
Characteristic inner ring frequency, BPFI	15.86 Hz



Abutment dimensions

da max	10.2756 "
db min	10.1575 "
Da min	12.5197 "
Da max	13.6220 "
Db min	13.6220 "
Ca min	0.4724 "
Cb min	0.7480 "
ra max	0.1181 "
r1a max	0.0984 "

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