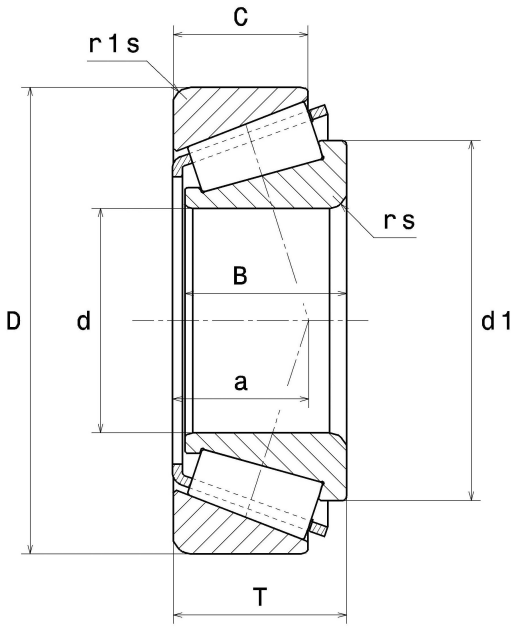
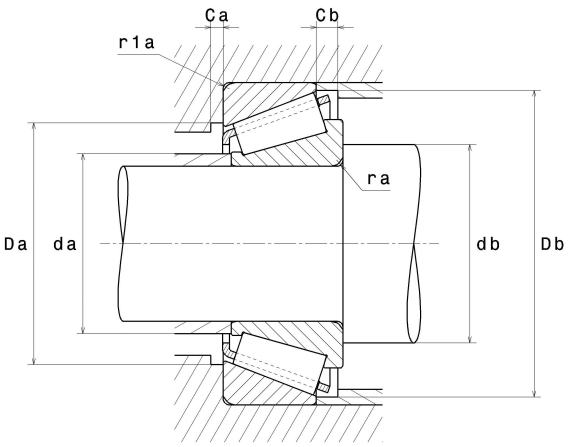
PDF technical sheet
4TLM814849/LM814810

Single row tapered roller bearings
Tapered roller bearing, pressed steel cage

Product definition	
d	3.0625 "
D	4.6250 "
B	1.0000 "
C	0.7500 "
T	1.0000 "
d1	3.9173 "
a	1.0906 "
e	0.51
Y2	1.18
Y0	0.65
Mass	3.29 oz
Brand	NTN



Product performance	
Dynamic load, C	99.50 kN
Rating life coefficient, A2	1.4
Static load, C0	162 kN
Fatigue limit load, Cu	19.80 kN
Nlim (oil)	3,900 RPM
Nlim (grease)	2,900 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	11.08 Hz
Characteristic outer ring frequency, BPF0	13.27 Hz
Characteristic inner ring frequency, BPFI	15.73 Hz



Abutment dimensions	
ra max	0.1378 "
r1a max	0.1299 "

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Code APE 2815 Z – Code NACE 28.15

Calculation factors

Equivalent dynamic radial load

P = X.Fr + Y.Fa

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

Po= Xo.Fr + Yo.Fa

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

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