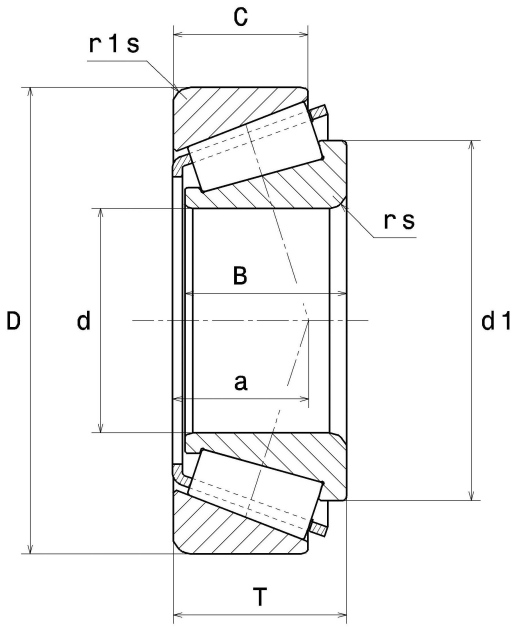
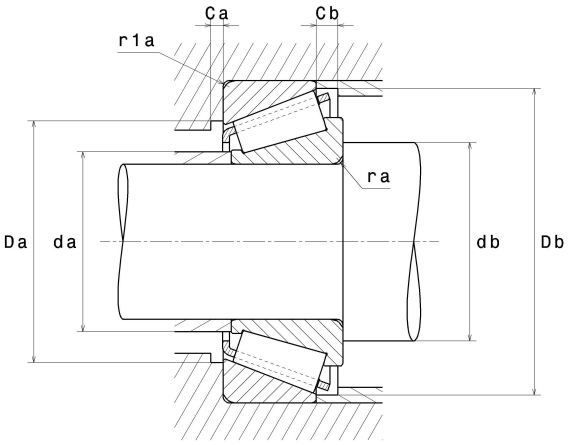
PDF technical sheet
30319DU

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

Product definition	
d	3.7402 "
D	7.8740 "
B	1.7717 "
C	1.2598 "
T	1.9488 "
d1	5.7677 "
a	2.4606 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.83
Y2	0.73
Y0	0.4
Mass	22.82 oz
ISO 355 reference	T7GB095
Brand	NTN



Product performance	
Dynamic load, C	296 kN
Rating life coefficient, A2	1
Static load, C0	355 kN
Fatigue limit load, Cu	38.70 kN
Nlim (oil)	2,200 RPM
Nlim (grease)	1,700 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.52 Hz
Characteristic outer ring frequency, BPF0	6.34 Hz
Characteristic inner ring frequency, BPFI	8.66 Hz



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Abutment dimensions	
da max	4.4882 "
db min	4.4488 "
Da min	6.0630 "
Da max	7.3228 "
Db min	7.3622 "
Ca min	0.2362 "
Cb min	0.6890 "
ra max	0.1181 "
r1a max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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