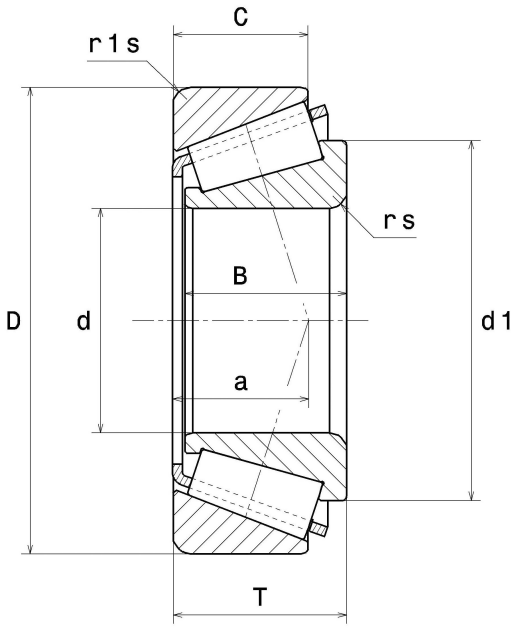
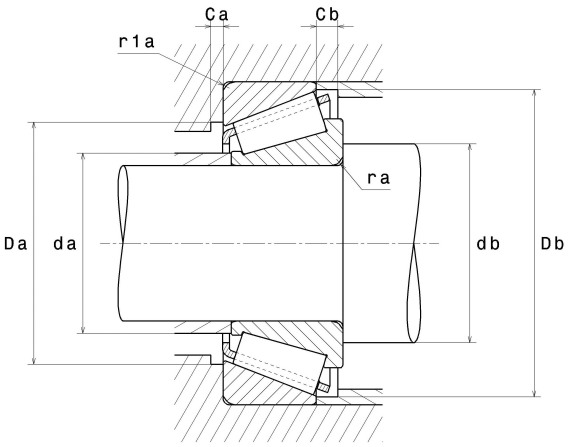
PDF technical sheet
32040A

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

Product definition	
d	7.8740 "
D	12.2047 "
B	2.7559 "
C	2.0866 "
T	2.7559 "
d1	10.0354 "
a	2.6378 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.43
Y2	1.39
Y0	0.77
Mass	67.37 oz
ISO 355 reference	T4FD200
Brand	SNR



Product performance	
Dynamic load, C	768 kN
Rating life coefficient, A2	1
Static load, C0	1,410 kN
Fatigue limit load, Cu	128 kN
Nref	1,300 RPM
Nlim	2,000 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	9.96 Hz
Characteristic outer ring frequency, BPF0	12.66 Hz
Characteristic inner ring frequency, BPFI	15.34 Hz



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Abutment dimensions	
da max	8.7008 "
db min	8.4252 "
Da min	10.7480 "
Da max	11.7323 "
Db min	11.6929 "
Ca min	0.4331 "
Cb min	0.6693 "
ra max	0.0984 "
r1a max	0.0787 "

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