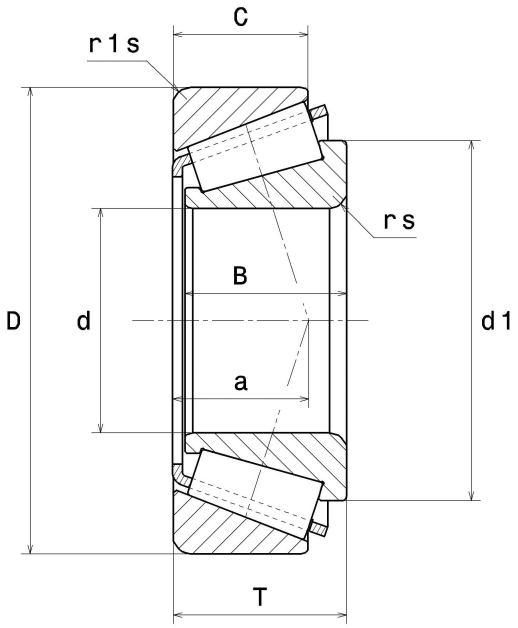
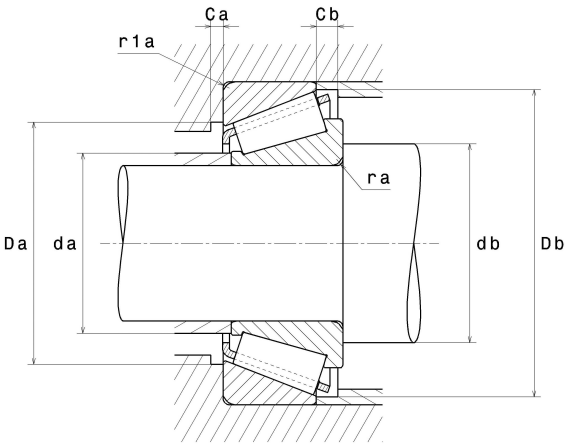
PDF technical sheet
32036A

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

Product definition	
d	7.0866 "
D	11.0236 "
B	2.5197 "
C	1.8898 "
T	2.5197 "
d1	9.0551 "
a	2.3622 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.42
Y2	1.42
Y0	0.78
Mass	50.09 oz
ISO 355 reference	T3FD180
Brand	SNR



Product performance	
Dynamic load, C	633 kN
Rating life coefficient, A2	1
Static load, C0	1,120 kN
Fatigue limit load, Cu	106 kN
Nref	1,500 RPM
Nlim	2,400 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	9.30 Hz
Characteristic outer ring frequency, BPF0	12.12 Hz
Characteristic inner ring frequency, BPFI	14.88 Hz



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Abutment dimensions	
da max	7.8346 "
db min	7.6378 "
Da min	9.7244 "
Da max	10.5512 "
Db min	10.5118 "
Ca min	0.3937 "
Cb min	0.6299 "
ra max	0.0984 "
r1a max	0.0787 "

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