

PDF technical sheet 32320B



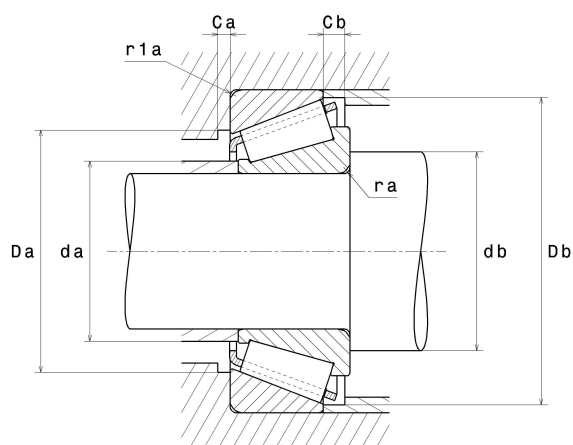
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	3.9370 "
D	8.4646 "
B	2.8740 "
C	2.1654 "
T	3.0512 "
d1	6.2047 "
a	2.4016 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.55
Y2	1.1
Y0	0.6
Mass	43.03 oz
ISO 355 reference	T5GD100B
Brand	SNR



Product performance	
Dynamic load, C	495 kN
Rating life coefficient, A2	1
Static load, C0	630 kN
Fatigue limit load, Cu	67.10 kN
Nref	2,700 RPM
Nlim	3,200 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	5.42 Hz
Characteristic outer ring frequency, BPF0	5.82 Hz
Characteristic inner ring frequency, BPFI	8.18 Hz



Abutment dimensions

da max	4.8425 "
db min	4.6457 "
Da min	6.7717 "
Da max	7.9134 "
Db min	8.1102 "
Ca min	0.3150 "
Cb min	0.7283 "
ra max	0.1181 "
r1a max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

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

Equivalent static radial load

$$P_o = X_o.F_r + Y_o.F_a$$

X ₀	Y ₀
0.5	Y0

If $P_o \leq F_r$, then use $P_o = F_r$

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