

PDF technical sheet 33020A



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	3.9370 "
D	5.9055 "
B	1.5354 "
C	1.2795 "
T	1.5354 "
a	1.1417 "
rs min	0.0787 "
r1s min	0.0591 "
e	0.29
Y2	2.09
Y0	1.15
Mass	8.54 oz
ISO 355 reference	T2CE100
Brand	SNR



Product performance	
Dynamic load, C	225 kN
Rating life coefficient, A2	1
Static load, C0	395 kN
Fatigue limit load, Cu	45.10 kN
Nref	2,900 RPM
Nlim	4,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	4.2520 "
db min	4.3307 "
Da min	5.3150 "
Da max	5.5709 "
Db min	5.6299 "
Ca min	0.2756 "
Cb min	0.2559 "
ra max	0.0787 "
r1a max	0.0591 "

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

$$P_0 = X_0.F_r + Y_0.F_a$$

X ₀	Y ₀
0.5	Y0

If $P_0 \leq F_r$, then use $P_0 = F_r$

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