

PDF technical sheet 33013.A



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	2.5591 "
D	3.9370 "
B	1.0630 "
C	0.8268 "
T	1.0630 "
d1	3.2559 "
a	0.8268 "
rs min	0.0591 "
r1s min	0.0591 "
e	0.35
Y2	1.72
Y0	0.95
Mass	2.61 oz
ISO 355 reference	T2CE065
Brand	SNR



Product performance	
Dynamic load, C	101 kN
Rating life coefficient, A2	1
Static load, C0	164 kN
Fatigue limit load, Cu	20 kN
Nref	4,300 RPM
Nlim	6,800 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	10.69 Hz
Characteristic outer ring frequency, BPF0	12.66 Hz
Characteristic inner ring frequency, BPFI	15.34 Hz



Abutment dimensions

da max	2.8346 "
db min	2.8937 "
Da min	3.5039 "
Da max	3.6024 "
Db min	3.7795 "
Ca min	0.1969 "
Cb min	0.2362 "
ra max	0.0591 "
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

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

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