

PDF technical sheet 33016A



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	3.1496 "
D	4.9213 "
B	1.4173 "
C	1.1614 "
T	1.4173 "
a	1.0236 "
rs min	0.0591 "
r1s min	0.0591 "
e	0.28
Y2	2.16
Y0	1.19
Mass	5.82 oz
ISO 355 reference	T2CE080
Brand	SNR



Product performance	
Dynamic load, C	175 kN
Rating life coefficient, A2	1
Static load, C0	290 kN
Fatigue limit load, Cu	35.10 kN
Nref	3,600 RPM
Nlim	5,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	3.5039 "
db min	3.4843 "
Da min	4.4094 "
Da max	4.5866 "
Db min	4.6850 "
Ca min	0.2362 "
Cb min	0.2559 "
ra max	0.0591 "
r1a max	0.0591 "

Calculation factors

Equivalent dynamic radial load

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

$F_a / F_r \leq e$		$F_a / F_r > e$	
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