

PDF technical sheet 30316A



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	3.1496 "
D	6.6929 "
B	1.5354 "
C	1.2992 "
T	1.6732 "
a	1.3386 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.35
Y2	1.74
Y0	0.96
Mass	15.31 oz
ISO 355 reference	T2GB080
Brand	SNR



Product performance	
Dynamic load, C	285 kN
Rating life coefficient, A2	1
Static load, C0	345 kN
Fatigue limit load, Cu	39.10 kN
Nref	3,300 RPM
Nlim	4,200 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	4.0157 "
db min	3.7008 "
Da min	5.8268 "
Da max	6.2205 "
Db min	6.2598 "
Ca min	0.1575 "
Cb min	0.3740 "
ra max	0.0984 "
r1a max	0.0787 "

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