

PDF technical sheet 32034A



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	6.6929 "
D	10.2362 "
B	2.2441 "
C	1.6929 "
T	2.2441 "
a	2.2441 "
rs min	0.1181 "
r1s min	0.0984 "
e	0.44
Y2	1.35
Y0	0.74
Mass	39.86 oz
ISO 355 reference	T4EC170
Brand	SNR



Product performance	
Dynamic load, C	500 kN
Rating life coefficient, A2	1
Static load, C0	880 kN
Fatigue limit load, Cu	85.30 kN
Nref	1,700 RPM
Nlim	2,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	7.3622 "
db min	7.2441 "
Da min	9.0551 "
Da max	9.7638 "
Db min	9.8031 "
Ca min	0.3937 "
Cb min	0.5512 "
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