

PDF technical sheet 32048A



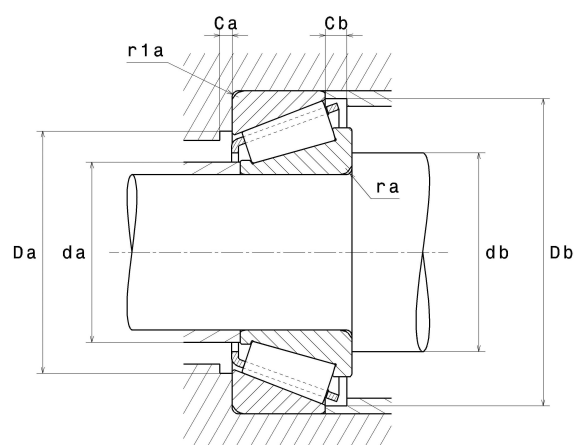
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	9.4488 "
D	14.1732 "
B	2.9921 "
C	2.2441 "
T	2.9921 "
a	3.0984 "
rs min	0.1575 "
r1s min	0.1181 "
e	0.46
Y2	1.31
Y0	0.72
Mass	91.01 oz
ISO 355 reference	T4FD240
Brand	SNR



Product performance	
Dynamic load, C	900 kN
Rating life coefficient, A2	1
Static load, C0	1,680 kN
Fatigue limit load, Cu	147 kN
Nref	1,100 RPM
Nlim	1,800 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	10.2756 "
db min	10.1575 "
Da min	12.5197 "
Da max	13.6220 "
Db min	13.6220 "
Ca min	0.4724 "
Cb min	0.7480 "
ra max	0.1181 "
r1a max	0.0984 "

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