

PDF technical sheet

32209BAS02

Single row tapered roller bearings

Product definition	
d	1.7717 "
D	3.3465 "
B	0.9055 "
C	0.7480 "
T	0.9744 "
d1	2.5984 "
a	0.9350 "
rs min	0.0591 "
r1s min	0.0591 "
e	0.59
Y2	1.01
Y0	0.56
Mass	1.31 oz
ISO 355 reference	T5DC045B
Brand	SNR

Product performance	
Dynamic load, C	87 kN
Rating life coefficient, A2	1
Static load, C0	104 kN
Fatigue limit load, Cu	12.60 kN
Nref	4,800 RPM
Nlim	8,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.23 Hz
Characteristic outer ring frequency, BPF0	7.69 Hz
Characteristic inner ring frequency, BPF1	10.32 Hz

Abutment dimensions	
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 $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table