

PDF technical sheet 6007FT150ZZ



Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications upto 150 °C.

Product definition	
d	35 mm
D	62 mm
B	14 mm
d1	43.50 mm
D1	55.90 mm
rs min	1 mm
Radial clearance class	C3
Mass	0.15 kg
Brand	SNR



Product performance	
Dynamic load, C	15.70 kN
Static load, C0	10.30 kN
Fatigue limit load, Cu	0.47 kN
f0	14.8
Nref	12,000 Tr/min
Nlim	15,000 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	150 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.95 Hz
Characteristic outer ring frequency, BPF0	4.60 Hz
Characteristic inner ring frequency, BPF1	6.40 Hz



Abutment dimensions

da min	40 mm
da max	43.50 mm
Da max	57 mm
ra max	1 mm

Calculation factors

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < F_r$, then use $P_0 = F_r$