

PDF technical sheet 6232C3



Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

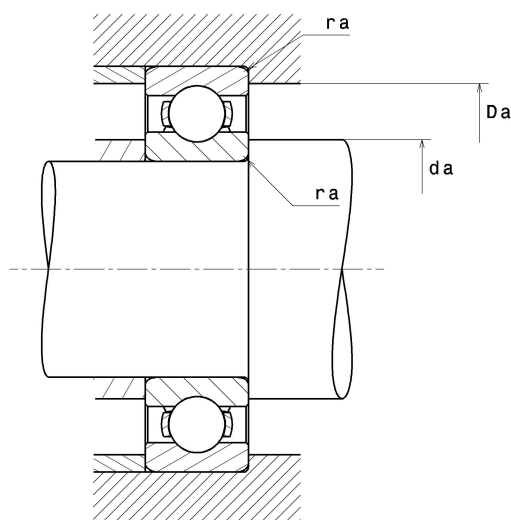
Product definition

d	160 mm
D	290 mm
B	48 mm
rs min	3 mm
Radial clearance class	C3
Mass	11.70 kg
Brand	NTN



Product performance

Dynamic load, C	185 kN
Static load, C0	186 kN
Fatigue limit load, Cu	5.60 kN
f0	15.4
Nlim (oil)	2,500 Tr/min
Nlim (grease)	2,100 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.95 Hz
Characteristic outer ring frequency, BPF0	5.15 Hz
Characteristic inner ring frequency, BPF1	6.85 Hz



Abutment dimensions

da min	173 mm
Da max	277 mm
ra max	2.50 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 $P_0 = F_r$