



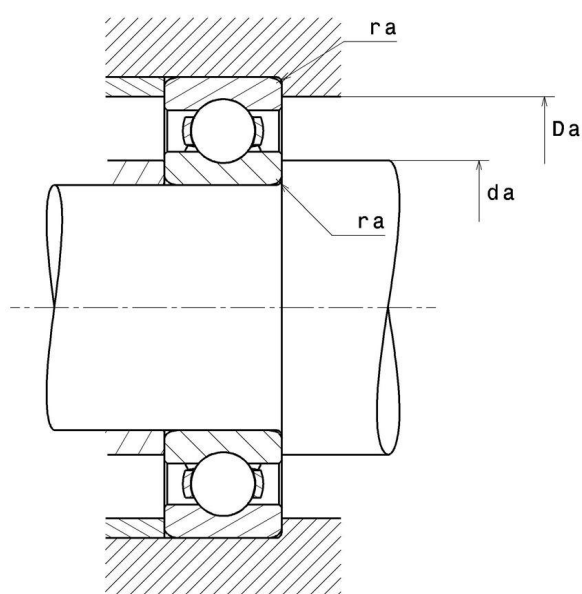
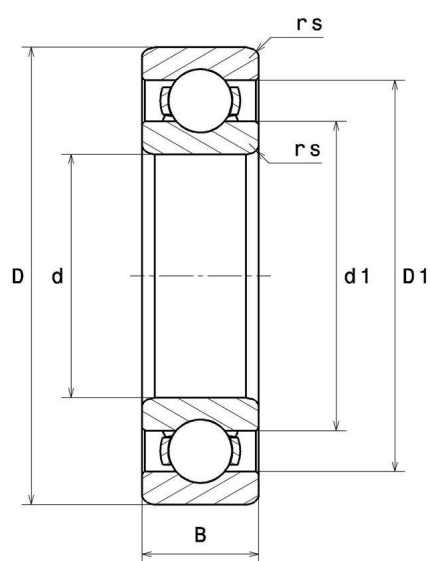
Technical data

6002C3

Single row deep groove ball bearings

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

VISUAL (S)



6002C3

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	15 mm
External diameter D	32 mm
Bearing/Inner ring width(B)	9 mm
Min fillet radius rs	0,3 mm
Radial clearance class	C3
Mass	0,03 kg
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	6,2 kN
Static load, C0	2,84 kN
Fatigue limit load, Cu	0,199 kN
Coefficient f0	13.9
Nlim (oil)	26000 tr/min
Nlim (grease)	22000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.399 Hz
Characteristic rolling element frequency, BSF	4.731 Hz
Characteristic outer ring frequency, BPF0	3.588 Hz
Characteristic inner ring frequency, BPFI	5.412 Hz

ABUTMENT

Min shoulder diameter IR da min	17 mm
Max shoulder diameter OR Da max	30 mm
Max shaft & housing fillet radius ra max	0,3 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > 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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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