



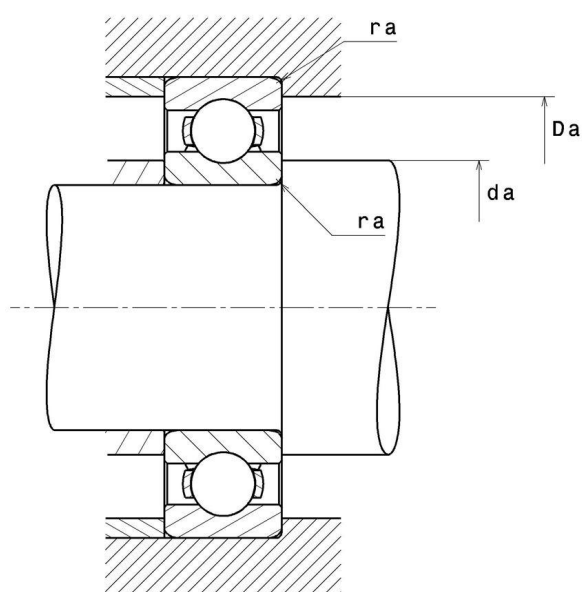
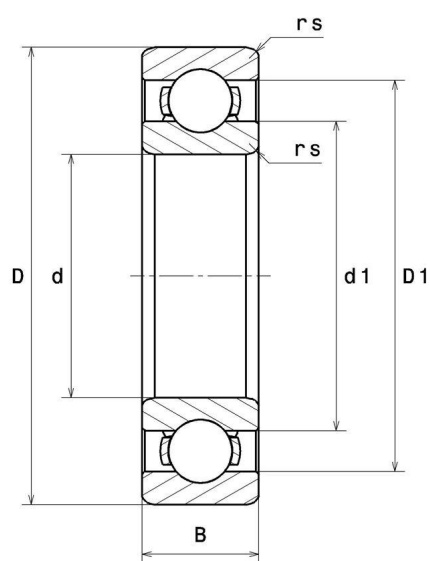
Technical data

6201C3

Single row deep groove ball bearings

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

VISUAL (S)



6201C3

Single row deep groove ball bearings

PRODUCT DIMENSIONS

Internal diameter d	12 mm
External diameter D	32 mm
Bearing/Inner ring width(B)	10 mm
External diameter inner ring d1	17,6 mm
Inner diameter outer ring D1	28,1 mm
Min fillet radius rs	0,6 mm
Radial clearance class	C3
Mass	0,037 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	6,8 kN
Static load, C0	3,05 kN
Fatigue limit load, Cu	0,14 kN
Coefficient f0	12.3
Reference thermal speed (Nref)	22000 tr/min
Mechanical Limit Speed Nlim	38000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.366 Hz
Characteristic rolling element frequency, BSF	3.461 Hz
Characteristic outer ring frequency, BPF0	2.561 Hz
Characteristic inner ring frequency, BRF0	4.439 Hz

ABUTMENT

Min shoulder diameter IR da min	16 mm
Max shoulder diameter IR da max	0 mm
Max shoulder diameter OR Da max	28 mm
Max shaft & housing fillet radius ra max	0,6 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	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

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

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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