

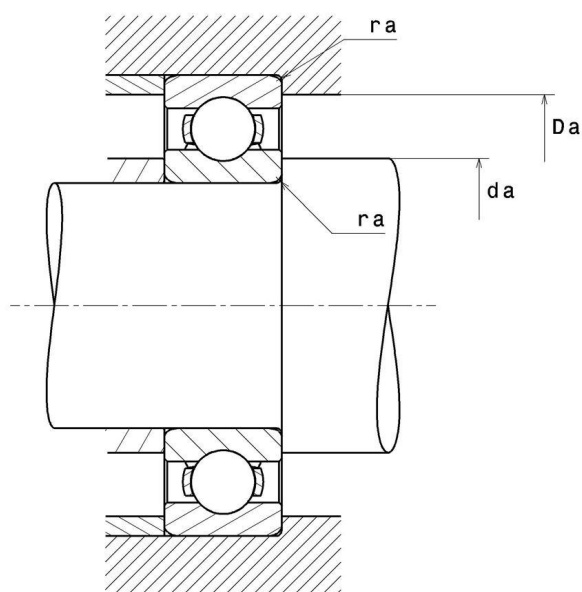
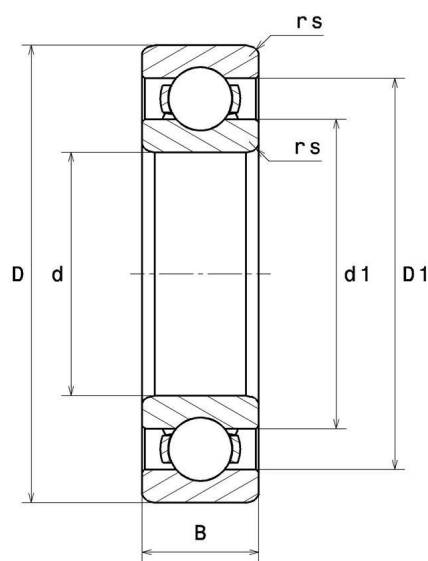
Technical data

6204

Single row deep groove ball bearings

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

VISUAL (S)



PRODUCT DIMENSIONS

Internal diameter d	20 mm
External diameter D	47 mm
Bearing/Inner ring width(B)	14 mm
External diameter inner ring d1	26,5 mm
Inner diameter outer ring D1	41,7 mm
Min fillet radius rs	1 mm
Radial clearance class	CN
Mass	0,096 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	13,7 kN
Static load, C0	6,7 kN
Fatigue limit load, Cu	0,3 kN
Coefficient f0	12.6
Reference thermal speed (Nref)	16000 tr/min
Mechanical Limit Speed Nlim	25000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.371 Hz
Characteristic rolling element frequency, BSF	3.611 Hz
Characteristic outer ring frequency, BPF0	2.595 Hz
Characteristic inner ring frequency, BRF0	4.405 Hz

ABUTMENT

Min shoulder diameter IR da min	25 mm
Max shoulder diameter IR da max	0 mm
Max shoulder diameter OR Da max	42 mm
Max shaft & housing fillet radius ra max	1 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 $P_0 = F_r$