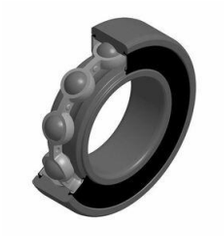


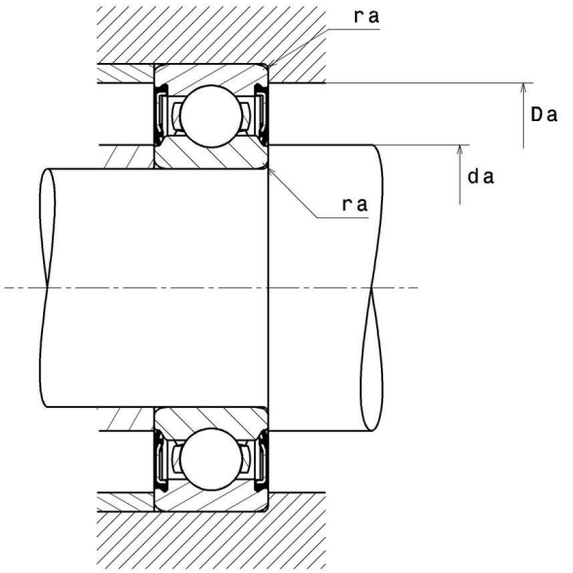
Technical data

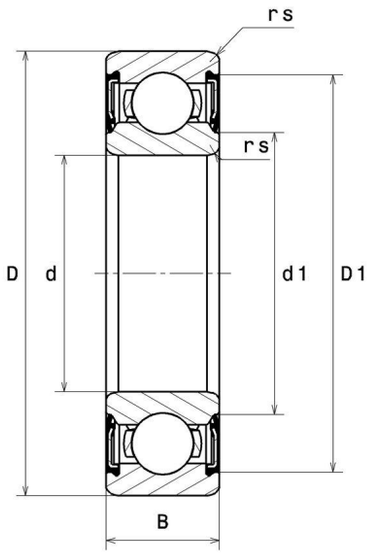
6020EEC3

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

VISUAL (S)





6020EEC3
Single row deep groove ball bearings

PRODUCT DIMENSIONS	
Internal diameter d	100 mm
External diameter D	150 mm
Bearing/Inner ring width(B)	24 mm
External diameter inner ring d1	110,5 mm
Inner diameter outer ring D1	139,1 mm
Min fillet radius rs	1,5 mm
Radial clearance class	C3
Brand	SNR

PRODUCT PERFORMANCE	
Dynamic load, C	59,4 kN
Static load, C0	54,2 kN
Fatigue limit load, Cu	2,2 kN
Coefficient f0	15.9
Nlim (grease)	2700 tr/min
Mechanical Limit Speed Nlim	2600 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.168 Hz
Characteristic outer ring frequency, BPF0	6.595 Hz
Characteristic inner ring frequency, BPFI	8.405 Hz

ABUTMENT	
Min shoulder diameter IR da min	108 mm
Max shoulder diameter IR da max	110,5 mm
Max shoulder diameter OR Da max	142 mm
Max shaft & housing fillet radius ra max	1,5 mm

6020EEC3
Single row deep groove ball bearings

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

P = X.Fr + Y.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

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr