



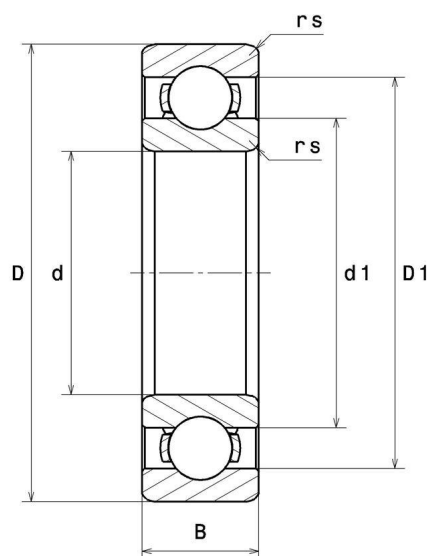
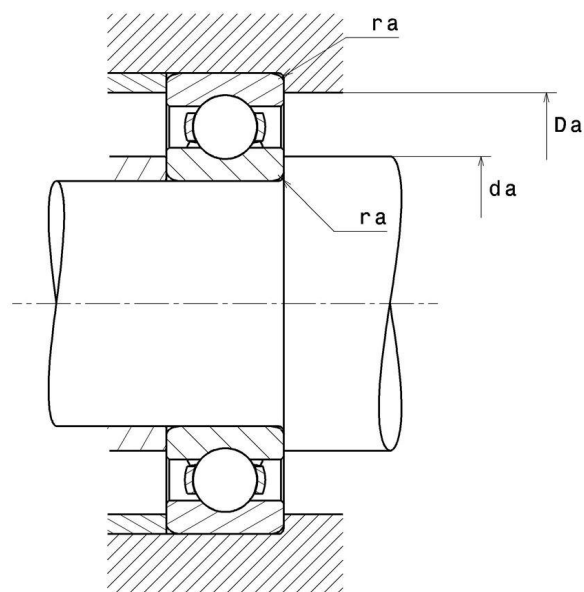
Technical data

6016

Single row deep groove ball bearings

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

VISUAL (S)



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	80 mm
D - External diameter	125 mm
B - Bearing/Inner ring width	22 mm
d1 - External diameter inner ring	89,3 mm
D1 - Inner diameter outer ring	115,3 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	0,87 kg

PRODUCT PERFORMANCE

C - Dynamic load	50,2 kN
C0 - Static load	39,8 kN
Cu - Fatigue limit load	1,79 kN
f0 - Coefficient	15.6
Nref - Reference thermal speed	6100 tr/min
Nlim - Mechanical Limit Speed	8700 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES

BPFO - Characteristic outer ring frequency (60 rpm)	6.078 Hz
BPFI - Characteristic inner ring frequency (60 rpm)	7.922 Hz
FTF - Characteristic cage frequency (60 rpm)	0.434 Hz
BSF - Characteristic rolling element frequency (60 rpm)	7.464 Hz

ABUTMENT

da min - Min shoulder diameter IR	86,5 mm
Da max - Max shoulder diameter OR	118,5 mm
ra max - Max shaft & housing fillet radius	1 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 $P_0 = Fr$