



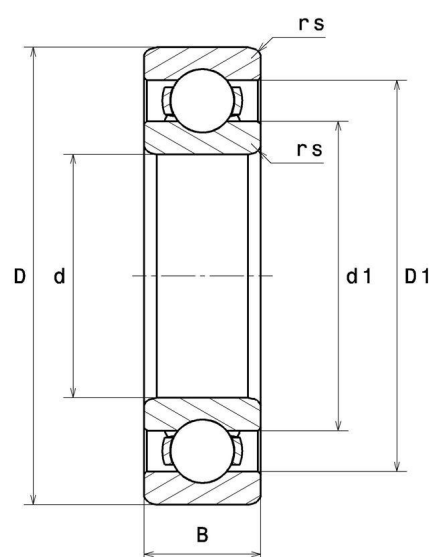
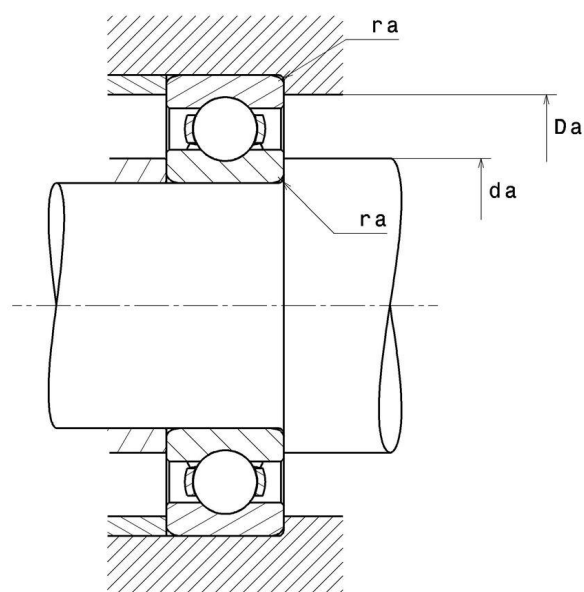
Technical data

6307C3

Single row deep groove ball bearings

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

VISUAL (S)



PRODUCT DEFINITION

d - Internal diameter	35 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	21 mm
d1 - External diameter inner ring	48,4 mm
D1 - Inner diameter outer ring	69,2 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	C3
Mass	0,456 kg
Brand	SNR

PRODUCT PERFORMANCE

C - Dynamic load	35,2 kN
C0 - Static load	19,3 kN
Cu - Fatigue limit load	0,88 kN
f0 - Coefficient	13.2
Nref - Reference thermal speed	9900 tr/min
Nlim - Mechanical Limit Speed	14000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da min - Min shoulder diameter IR	43 mm
Da max - Max shoulder diameter OR	72 mm
ra max - Max shaft & housing fillet radius	1,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		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 $P_0 = F_r$