

Technical data

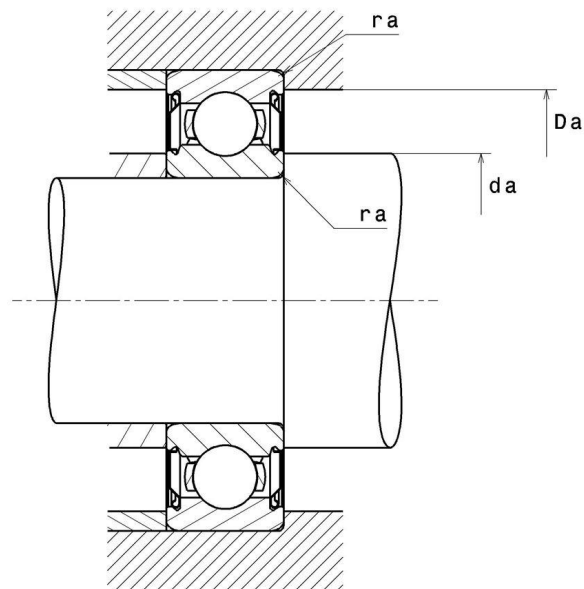
6208HT200ZZ

Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 200°C.

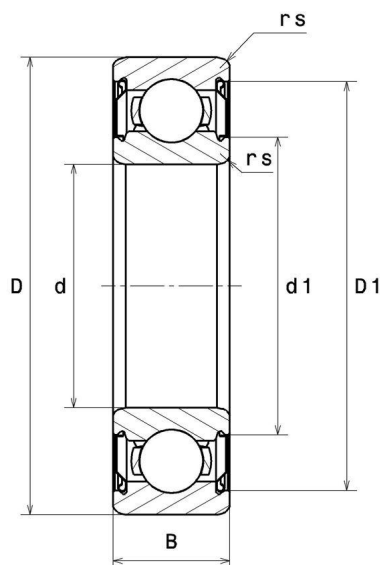
TOPLINE

VISUAL (S)



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PRODUCT DIMENSIONS

Internal diameter d	40 mm
External diameter D	80 mm
Bearing/Inner ring width(B)	18 mm
External diameter inner ring d1	50,3 mm
Inner diameter outer ring D1	70,4 mm
Min fillet radius rs	1,1 mm
Radial clearance class	C4
Mass	0,364 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load, C	28,7 kN
Static load, C0	17,9 kN
Fatigue limit load, Cu	0,81 kN
Coefficient f0	14.0
Reference thermal speed (Nref)	9300 tr/min
Mechanical Limit Speed Nlim	3900 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C

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PRODUCT PERFORMANCE

Characteristic cage frequency, FTF	0.401 Hz
Characteristic rolling element frequency, BSF	4.841 Hz
Characteristic outer ring frequency, BPF0	3.607 Hz
Characteristic inner ring frequency, BPFI	5.393 Hz

ABUTMENT

Min shoulder diameter IR da min	46,5 mm
Max shoulder diameter IR da max	50,3 mm
Max shoulder diameter OR Da max	73,5 mm
Max shaft & housing fillet radius ra max	1 mm

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				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	0	0.56	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

$$P_0 = X_0.Fr + Y_0.Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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