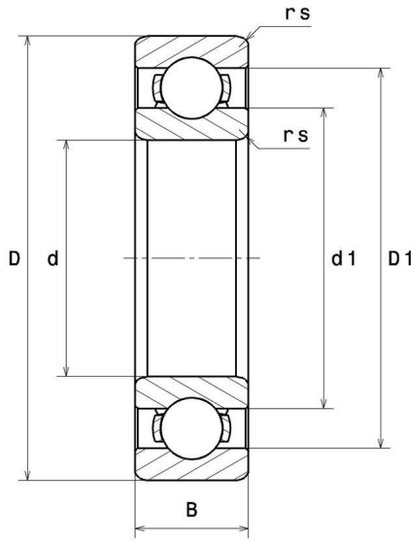
Technical data

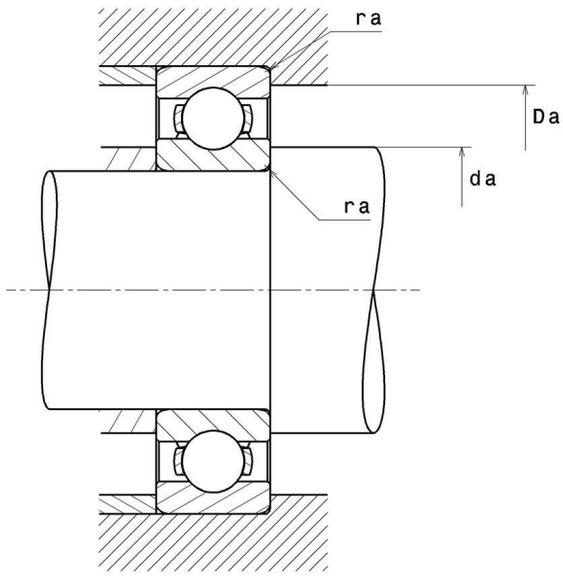
6000

Single row deep groove ball bearings

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

VISUAL (S)





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PRODUCT DIMENSIONS	
Internal diameter d	10 mm
External diameter D	26 mm
Bearing/Inner ring width(B)	8 mm
External diameter inner ring d1	13,9 mm
Inner diameter outer ring D1	22,5 mm
Min fillet radius rs	0,3 mm
Radial clearance class	CN
Mass	0,018 kg
Brand	SNR

PRODUCT PERFORMANCE	
Dynamic load, C	4,45 kN
Static load, C0	1,97 kN
Fatigue limit load, Cu	0,09 kN
Coefficient f0	12.4
Reference thermal speed (Nref)	28000 tr/min
Mechanical Limit Speed Nlim	51000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.368 Hz
Characteristic rolling element frequency, BSF	3.515 Hz
Characteristic outer ring frequency, BPF0	2.574 Hz
Characteristic inner ring frequency, BPFI	4.426 Hz

ABUTMENT	
Min shoulder diameter IR da min	12 mm
Max shoulder diameter IR da max	0 mm
Max shoulder diameter OR Da max	24 mm
Max shaft & housing fillet radius ra max	0,3 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	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