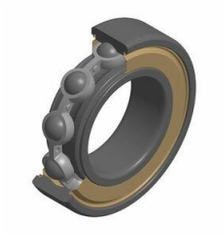
Technical data

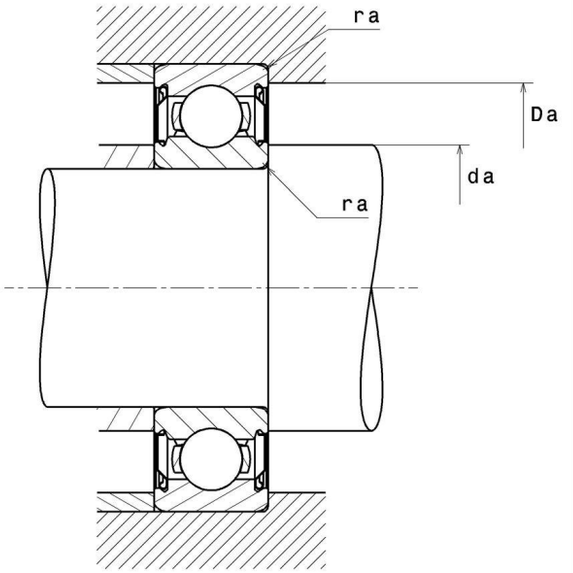
6301ZZC3/5K

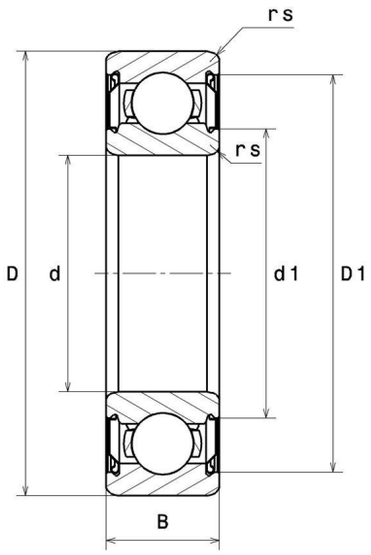
Single row deep groove ball bearings



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

VISUAL (S)





6301ZZC3/5K
Single row deep groove ball bearings

PRODUCT DIMENSIONS	
Internal diameter d	12 mm
External diameter D	37 mm
Bearing/Inner ring width(B)	12 mm
Min fillet radius rs	1 mm
Radial clearance class	C3
Mass	0,06 kg
Brand	NTN

PRODUCT PERFORMANCE	
Dynamic load, C	10,8 kN
Static load, C0	4,2 kN
Fatigue limit load, Cu	0,325 kN
Coefficient f0	11.1
Nlim (grease)	20000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	150 °C
Characteristic cage frequency, FTF	0.338 Hz
Characteristic rolling element frequency, BSF	2.762 Hz
Characteristic outer ring frequency, BPF0	2.028 Hz
Characteristic inner ring frequency, BPFI	3.972 Hz

ABUTMENT	
Min shoulder diameter IR da min	17 mm
Max shoulder diameter OR Da max	32 mm
Max shaft & housing fillet radius ra max	1 mm

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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