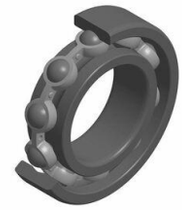
Technical data

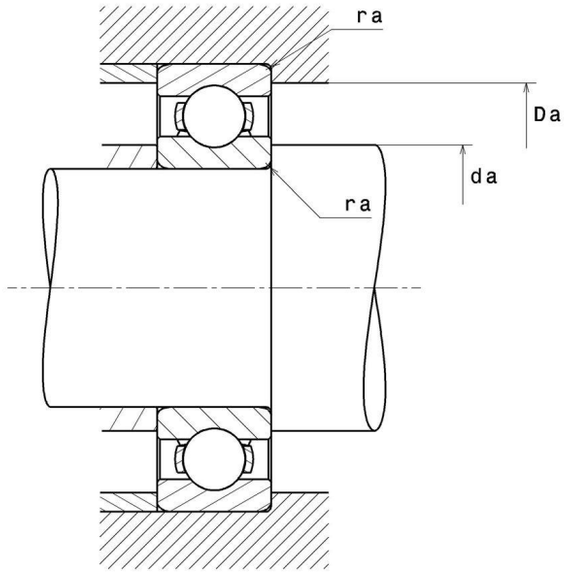
6403

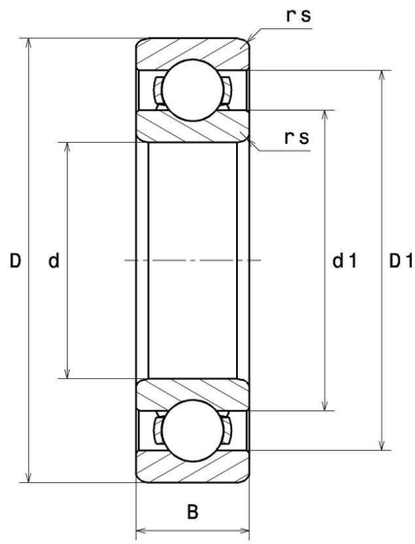
Single row deep groove ball bearings



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

VISUAL (S)





6403
Single row deep groove ball bearings

PRODUCT DIMENSIONS	
Internal diameter d	17 mm
External diameter D	62 mm
Bearing/Inner ring width(B)	17 mm
Min fillet radius rs	1,1 mm
Radial clearance class	CN
Mass	0,27 kg
Brand	NTN

PRODUCT PERFORMANCE	
Dynamic load, C	25,2 kN
Static load, C0	10,8 kN
Fatigue limit load, Cu	0,84 kN
Coefficient f0	11.1
Nlim (oil)	16000 tr/min
Nlim (grease)	14000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.339 Hz
Characteristic rolling element frequency, BSF	2.789 Hz
Characteristic outer ring frequency, BPF0	2.035 Hz
Characteristic inner ring frequency, BPFI	3.965 Hz

ABUTMENT	
Min shoulder diameter IR da min	23,5 mm
Max shoulder diameter OR Da max	55,5 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	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