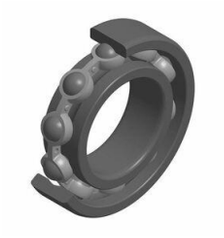
Technical data

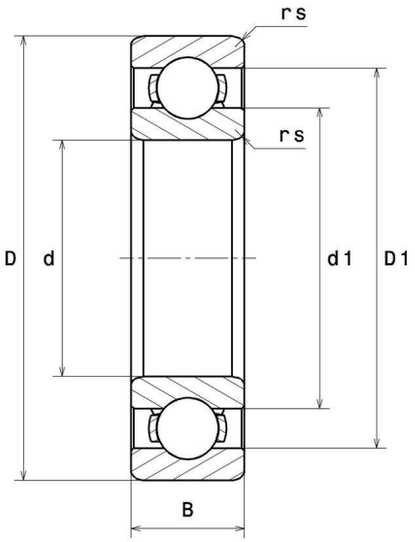
6324C3

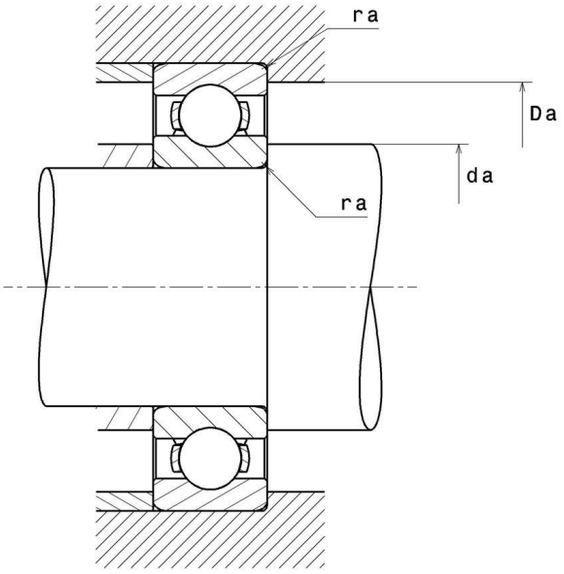
Single row deep groove ball bearings



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

VISUAL (S)





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S.A. au capital de 123 599 542 € - RCS ANNECY B 325 821 072 - Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 - Code APE 2815 Z - Code NACE 28.15

6324C3
Single row deep groove ball bearings

PRODUCT DIMENSIONS	
Internal diameter d	120 mm
External diameter D	260 mm
Bearing/Inner ring width(B)	55 mm
Min fillet radius rs	3 mm
Radial clearance class	C3
Mass	12,4 kg
Brand	NTN

PRODUCT PERFORMANCE	
Dynamic load, C	229 kN
Static load, C0	185 kN
Fatigue limit load, Cu	10,5 kN
Coefficient f0	13.5
Nlim (oil)	3100 tr/min
Nlim (grease)	2600 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.391 Hz
Characteristic rolling element frequency, BSF	4.386 Hz
Characteristic outer ring frequency, BPF0	3.131 Hz
Characteristic inner ring frequency, BPFI	4.869 Hz

ABUTMENT	
Min shoulder diameter IR da min	133 mm
Max shoulder diameter OR Da max	247 mm
Max shaft & housing fillet radius ra max	2,5 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