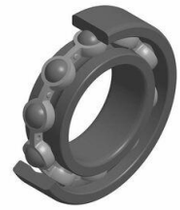


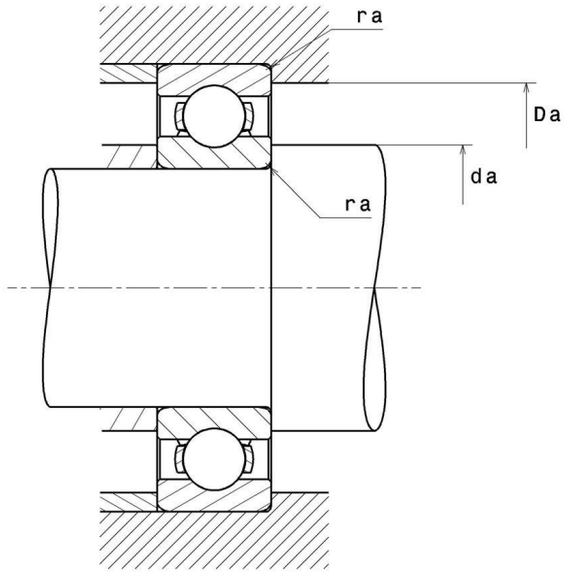
Technical data

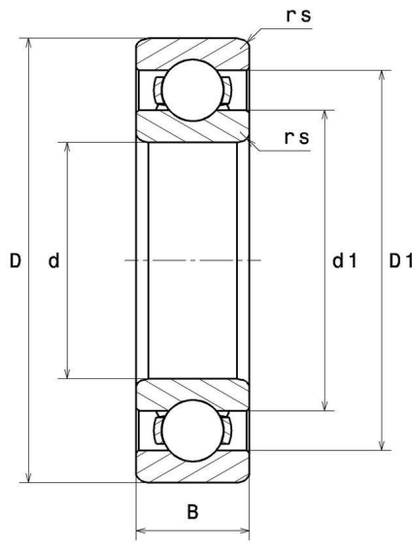
6408

Single row deep groove ball bearings

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

VISUAL (S)





6408
Single row deep groove ball bearings

PRODUCT DIMENSIONS	
Internal diameter d	40 mm
External diameter D	110 mm
Bearing/Inner ring width(B)	27 mm
Min fillet radius rs	2 mm
Radial clearance class	CN
Mass	1,23 kg
Brand	NTN

PRODUCT PERFORMANCE	
Dynamic load, C	70,5 kN
Static load, C0	36,5 kN
Fatigue limit load, Cu	2,85 kN
Coefficient f0	12.3
Nlim (oil)	8200 tr/min
Nlim (grease)	7000 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.364 Hz
Characteristic rolling element frequency, BSF	3.411 Hz
Characteristic outer ring frequency, BPF0	2.55 Hz
Characteristic inner ring frequency, BPFI	4.45 Hz

ABUTMENT	
Min shoulder diameter IR da min	49 mm
Max shoulder diameter OR Da max	101 mm
Max shaft & housing fillet radius ra max	2 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