

PDF technical sheet

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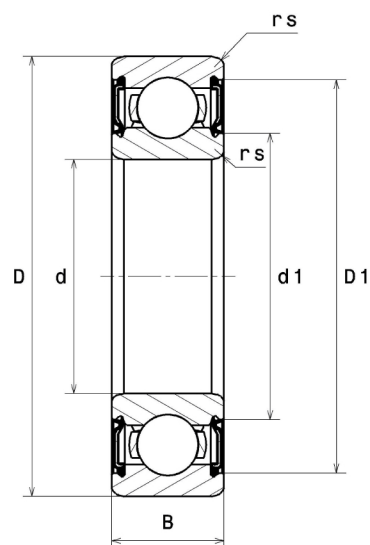


Single row deep groove ball bearings

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

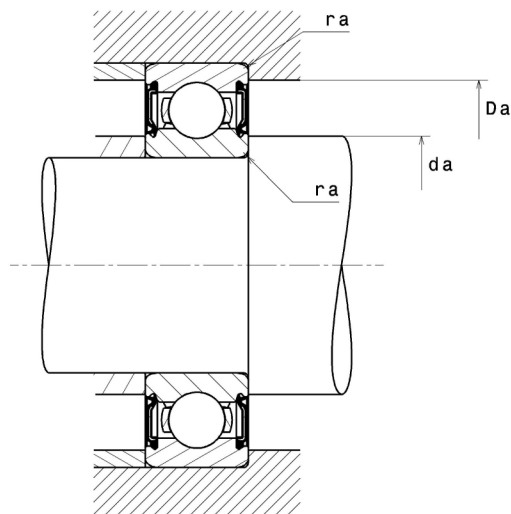
Product definition

d	40 mm
D	80 mm
B	18 mm
rs min	1.10 mm
Radial clearance class	C3
Mass	0.37 kg
Brand	NTN



Product performance

Dynamic load, C	29.10 kN
Static load, C0	17.80 kN
Fatigue limit load, Cu	0.81 kN
f0	14
Nlim (grease)	5,600 rpm
Min operating temperature, Tmin	-10 °C
Max operating temperature, Tmax	150 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.84 Hz
Characteristic outer ring frequency, BPF0	3.61 Hz
Characteristic inner ring frequency, BPFI	5.39 Hz



Abutment dimensions

da min	46.50 mm
da max	51 mm
Da max	73.50 mm
ra max	1 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	e	$F_a / Fr \leq e$		$F_a / Fr > e$	
		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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < Fr$, then use $P_0 = Fr$