

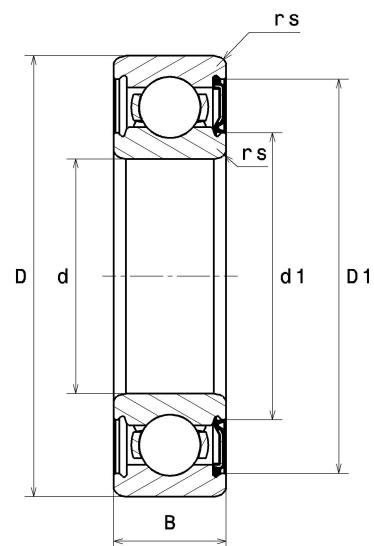
PDF technical sheet 6020LU



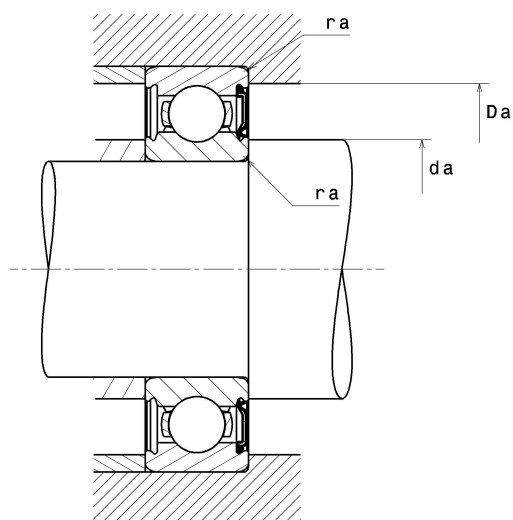
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seal on one side

Product definition	
d	100 mm
D	150 mm
B	24 mm
rs min	1.50 mm
Radial clearance class	CN
Mass	1.15 kg
Brand	NTN



Product performance	
Dynamic load, C	60 kN
Static load, C0	54 kN
Fatigue limit load, Cu	2.20 kN
f0	15.9
Nlim (grease)	2,600 Tr/min
Min operating temperature, Tmin	-25 °C
Max operating temperature, Tmax	110 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.17 Hz
Characteristic outer ring frequency, BPF0	6.60 Hz
Characteristic inner ring frequency, BPF1	8.41 Hz



Abutment dimensions

da min	108 mm
da max	110 mm
Da max	142 mm
ra max	1.50 mm

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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