

PDF technical sheet 6214LU



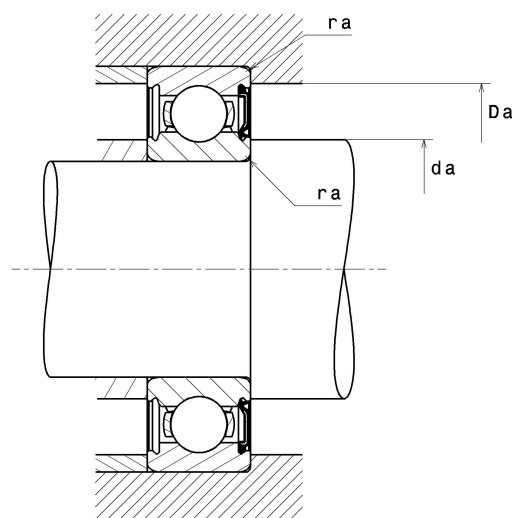
Single row deep groove ball bearings

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

Product definition	
d	70 mm
D	125 mm
B	24 mm
rs min	1.50 mm
Radial clearance class	CN
Mass	1.07 kg
Brand	NTN



Product performance	
Dynamic load, C	62 kN
Static load, C0	44 kN
Fatigue limit load, Cu	2 kN
f0	14.5
Nlim (grease)	3,400 Tr/min
Min operating temperature, Tmin	-25 °C
Max operating temperature, Tmax	110 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.40 Hz
Characteristic outer ring frequency, BPF0	4.10 Hz
Characteristic inner ring frequency, BPF1	5.90 Hz



Abutment dimensions

da min	78 mm
da max	85 mm
Da max	117 mm
ra max	1.50 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 $P_0 = Fr$