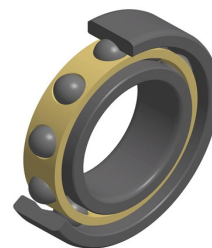


PDF technical sheet 6036L1C4

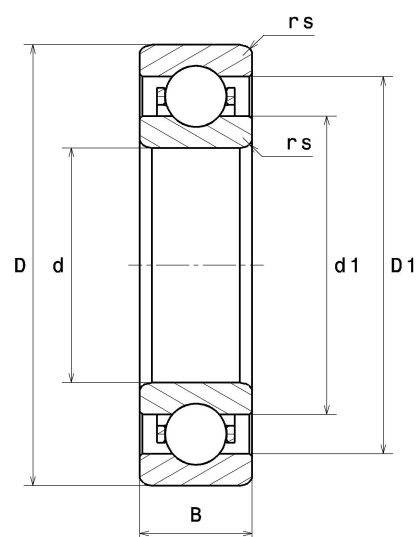


Single row deep groove ball bearings

Deep groove ball bearing, radial contact, machined cage, open

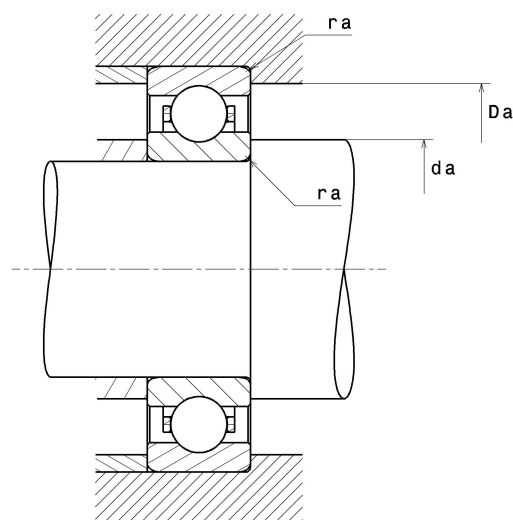
Product definition

d	180 mm
D	280 mm
B	46 mm
rs min	2.10 mm
Radial clearance class	C4
Mass	8.80 kg
Brand	NTN



Product performance

Dynamic load, C	189 kN
Static load, C0	199 kN
Fatigue limit load, Cu	6 kN
f0	15.6
Nlim (oil)	2,700 Tr/min
Nlim (grease)	2,300 Tr/min
Min operating temperature, Tmin	-60 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.49 Hz
Characteristic outer ring frequency, BPF0	6.08 Hz
Characteristic inner ring frequency, BPFI	7.92 Hz



Abutment dimensions

da min	191 mm
Da max	269 mm
ra max	2 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 $P_0 = F_r$