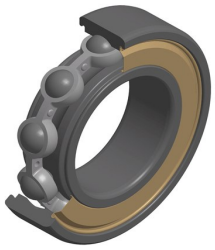
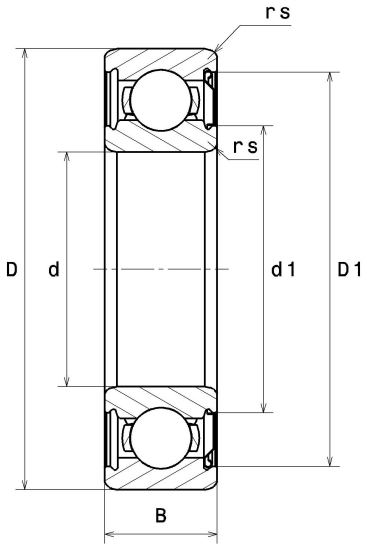
# PDF technical sheet
# 6212Z

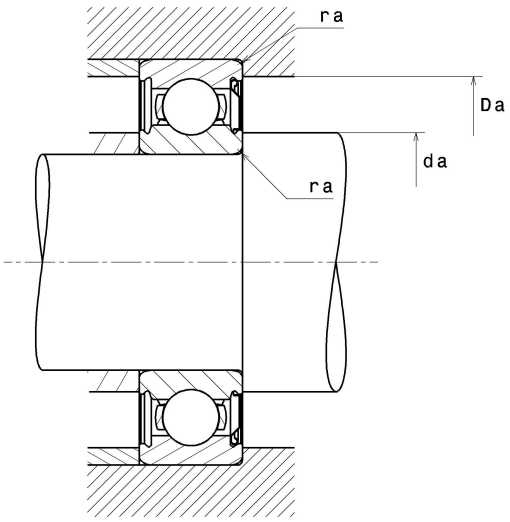


## Single row deep groove ball bearings
Deep groove ball bearing, radial contact, pressed steel cage, shield on one side

| Product definition | |
|---|---|
| d | 60 mm |
| D | 110 mm |
| B | 22 mm |
| rs min | 1.50 mm |
| Radial clearance class | CN |
| Mass | 0.78 kg |
| Brand | NTN |




| Product performance | |
|---|---|
| Dynamic load, C | 52.50 kN |
| Static load, C0 | 36 kN |
| Fatigue limit load, Cu | 1.64 kN |
| f0 | 14.3 |
| Nlim (oil) | 7,000 Tr/min |
| Nlim (grease) | 6,000 Tr/min |
| Min operating temperature, Tmin | −20 °C |
| Max operating temperature, Tmax | 120 °C |
| Characteristic cage frequency, FTF | 0.41 Hz |
| Characteristic rolling element frequency, BSF | 5.27 Hz |
| Characteristic outer ring frequency, BPF0 | 4.08 Hz |
| Characteristic inner ring frequency, BPFI | 5.92 Hz |

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Code APE 2815 Z – Code NACE 28.15

| Abutment dimensions | |
|---|---|
| da min | 68 mm |
| Da max | 102 mm |
| ra max | 1.50 mm |

## Calculation 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