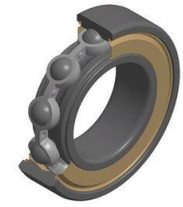
Brand of NTN corporation

# Technical data



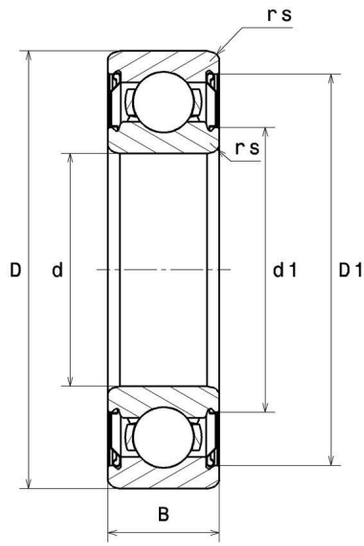
## 6211F604

Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 350°C.

TOPLINE

## VISUAL (S)

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
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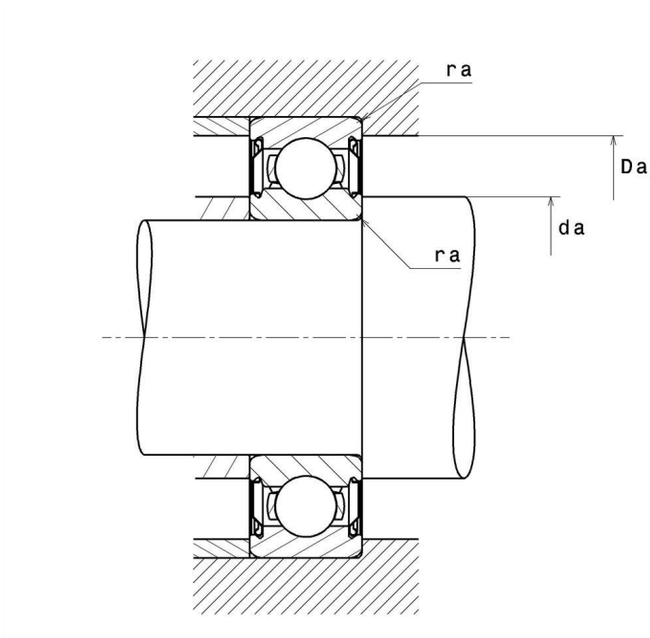
# 6211F604
## Single row deep groove ball bearings




| PRODUCT DEFINITION | |
|---|---|
| **Brand** | SNR |
| **d - Internal diameter** | 55 mm |
| **D - External diameter** | 100 mm |
| **B - Bearing/Inner ring width** | 21 mm |
| **d1 - External diameter inner ring** | 65,4 mm |
| **D1 - Inner diameter outer ring** | 90,9 mm |
| **rs - Min fillet radius** | 1,5 mm |
| **Radial clearance class** | > C5 |
| **Mass** | 0,583 kg |

| PRODUCT PERFORMANCE | |
|---|---|
| **C0 - Static load** | 29300000 mN |
| **f0 - Coefficient** | 14.3 |
| **N lim - Mechanical Limit Speed** | 360 °/s |

# 6211F604
Single row deep groove ball bearings

| PRODUCT PERFORMANCE | |
|---|---|
| **Tmin - Min operating temperature** | 243,15 °K |
| **Tmax - Max operating temperature** | 623,15 °K |

| BEARING FREQUENCIES | |
|---|---|
| **BPFO - Over rolling frequency on outer ring (60 rpm)** | 4.078 Hz |
| **BPFI - Over rolling frequency on inner (60 rpm)** | 5.922 Hz |
| **BSF - Over rolling frequency on rolling element (60 rpm)** | 5.24 Hz |
| **BRF - Rotational frequency – rolling element (60 rpm)** | 2.62 Hz |
| **FTF - Rotational frequency - cage (60 rpm)** | 0.408 Hz |

| ABUTMENT | |
|---|---|
| **da min - Min shoulder diameter IR** | 63 mm |
| **da max - Max shoulder diameter IR** | 65,4 mm |
| **Da max - Max shoulder diameter OR** | 92 mm |
| **ra max - Max shaft & housing fillet radius** | 1,5 mm |

## INDUSTRY CALCUL 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