Brand of NTN corporation

# Technical data

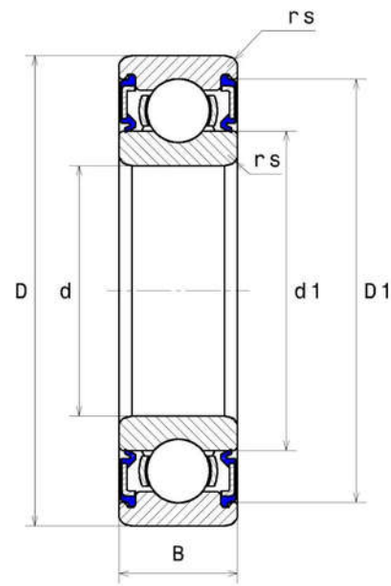
## S6301EEFD

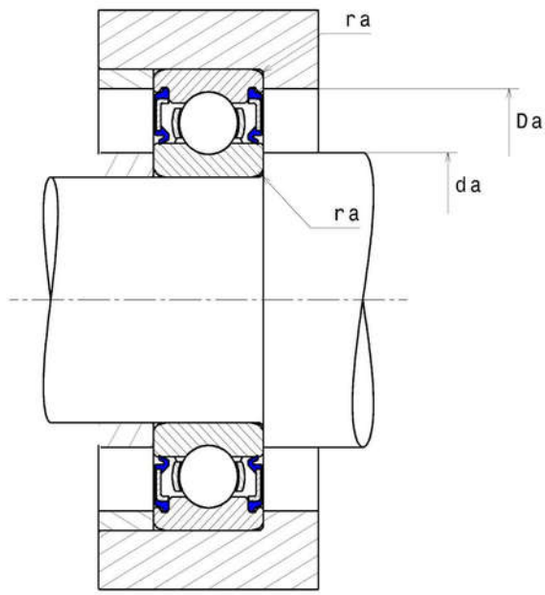
Single row deep groove ball bearings



Stainless steel deep groove ball bearing, with pressed stainless steel cage, seals with stainless steel frame on both sides, food grease lubrication.

## VISUAL (S)




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SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

# S6301EEFD
Single row deep groove ball bearings

| PRODUCT DEFINITION | |
|---|---|
| **Brand** | SNR |
| **d - Internal diameter** | 12 mm |
| **D - External diameter** | 37 mm |
| **B - Bearing/Inner ring width** | 12 mm |
| **d1 - External diameter inner ring** | 19,3 mm |
| **D1 - Inner diameter outer ring** | 31,6 mm |
| **rs - Min fillet radius** | 1 mm |
| **Radial clearance class** | CN |
| **Mass** | 0,059 kg |

| PRODUCT PERFORMANCE | |
|---|---|
| **C - Dynamic load** | 7,5 kN |
| **C0 - Static load** | 4,2 kN |
| **Cu - Fatigue limit load** | 0,19 kN |
| **f0 - Coefficient** | 11.08 |
| **Nlim - Mechanical Limit Speed** | 15000 tr/min |
| **Tmin - Min operating temperature** | -30 °C |
| **Tmax - Max operating temperature** | 120 °C |

| BEARING FREQUENCIES | |
|---|---|
| **BPFO - Characteristic outer ring frequency (60 rpm)** | 2.028 Hz |
| **BPFI - Characteristic inner ring frequency (60 rpm)** | 3.972 Hz |
| **FTF - Characteristic cage frequency (60 rpm)** | 0.338 Hz |
| **BSF - Characteristic rolling element frequency (60 rpm)** | 2.762 Hz |

## ABUTMENT

| | |
|---|---|
| **da min - Min shoulder diameter IR** | 17 mm |
| **da max - Max shoulder diameter IR** | 19,3 mm |
| **Da max - Max shoulder diameter OR** | 32 mm |
| **ra max - Max shaft & housing fillet radius** | 1 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