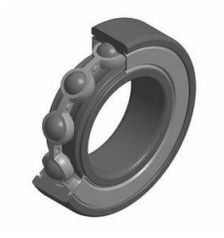


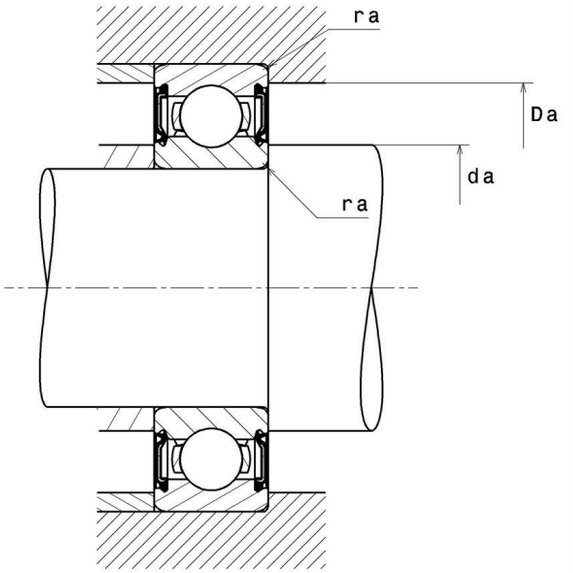
# Technical data

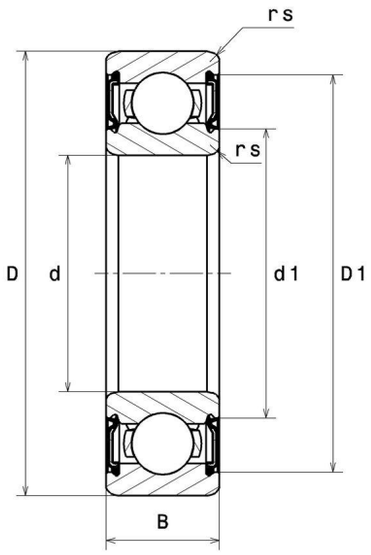
## 6306EEC3

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

## VISUAL (S)



# 6306EEC3
## Single row deep groove ball bearings

| PRODUCT DIMENSIONS | |
|---|---|
| **Internal diameter d** | 30 mm |
| **External diameter D** | 72 mm |
| **Bearing/Inner ring width(B)** | 19 mm |
| **External diameter inner ring d1** | 43,1 mm |
| **Inner diameter outer ring D1** | 61,4 mm |
| **Min fillet radius rs** | 1,1 mm |
| **Radial clearance class** | C3 |
| **Mass** | 0,35 kg |
| **Brand** | SNR |

| PRODUCT PERFORMANCE | |
|---|---|
| **Dynamic load, C** | 26,7 kN |
| **Static load, C0** | 15,2 kN |
| **Fatigue limit load, Cu** | 0,69 kN |
| **Coefficient f0** | 13.2 |
| **Mechanical Limit Speed Nlim** | 6600 tr/min |
| **Min operating temperature, Tmin** | -30 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.385 Hz |
| **Characteristic rolling element frequency, BSF** | 4.103 Hz |
| **Characteristic outer ring frequency, BPF0** | 3.077 Hz |
| **Characteristic inner ring frequency, BPFI** | 4.923 Hz |

| ABUTMENT | |
|---|---|
| **Min shoulder diameter IR da min** | 36,5 mm |
| **Max shoulder diameter IR da max** | 22,8 mm |
| **Max shoulder diameter OR Da max** | 65,5 mm |
| **Max shaft & housing fillet radius ra max** | 1 mm |

# 6306EEC3
## Single row deep groove ball bearings

## 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