# Technical data

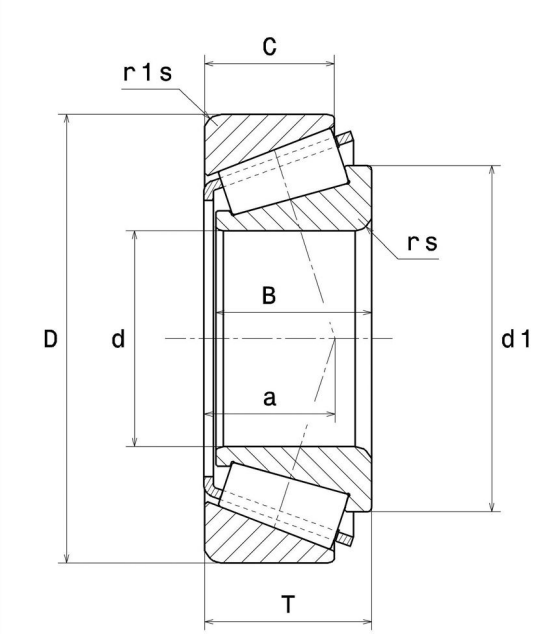
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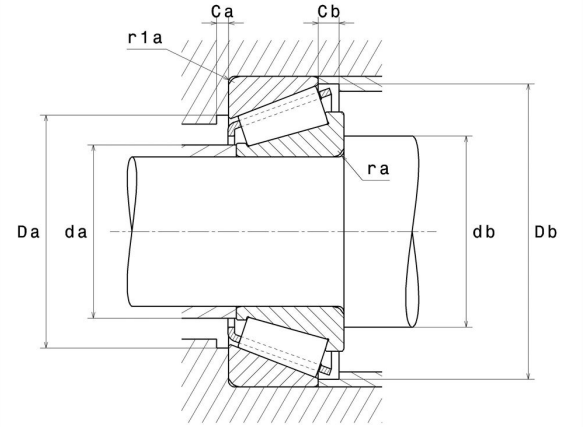
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 34.99 mm |
| **D** | 59.13 mm |
| **B** | 16.76 mm |
| **C** | 11.94 mm |
| **T** | 15.88 mm |
| **d1** | 48.2 mm |
| **a** | 13.3 mm |
| **rs min** | 3.6 mm |
| **r1s min** | 1.3 mm |
| **e** | 0.42 |
| **Y2** | 1.44 |
| **Y0** | 0.79 |
| **Mass** | 0.17 kg |
| **Brand** | SNR |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 35.2 kN |
| **Rating life coefficient, A2** | 1 |
| **Static load, C0** | 47.5 kN |
| **Fatigue limit load, Cu** | 5.8 kN |
| **Nref** | 5,800 Tr/min |
| **Nlim** | 12,000 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.45 Hz |
| **Characteristic rolling element frequency, BSF** | 8.76 Hz |
| **Characteristic outer ring frequency, BPF0** | 10.25 Hz |
| **Characteristic inner ring frequency, BPFI** | 12.75 Hz |

## Abutment dimensions

| | |
|---|---|
| **db min** | 50.99 mm |
| **Da max** | 50.8 mm |
| **ra max** | 2.5 mm |
| **r1a max** | 1 mm |

## Calculation factors

### Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

| Fa / Fr ≤ e | | Fa / Fr > e | |
|---|---|---|---|
| X | Y | X | Y |
| 1 | 0 | 0.4 | Y2 |

### Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

| $X_0$ | $Y_0$ |
|---|---|
| 0.5 | Y0 |

If Po <Fr, then use Po = Fr

The values for e, Y2 and Y0 are shown in the above table