# Technical data

## 33110A

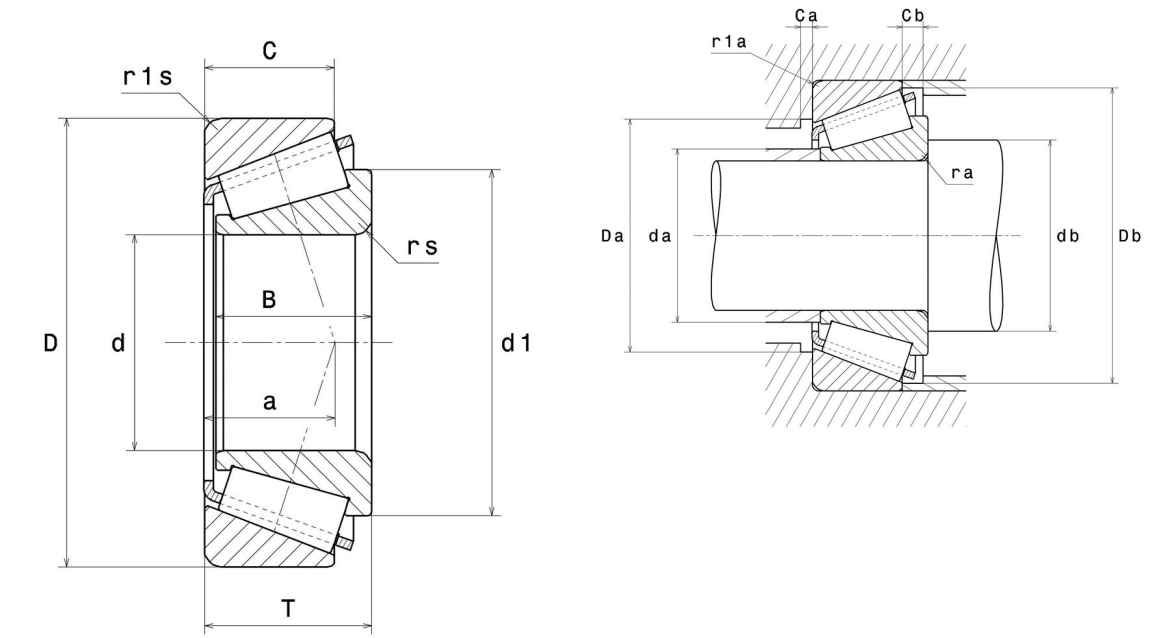
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

ULTAGE



## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 50 mm |
| **D** | 85 mm |
| **B** | 26 mm |
| **C** | 20 mm |
| **T** | 26 mm |
| **d1** | 69 mm |
| **a** | 20.5 mm |
| **rs min** | 1.5 mm |
| **r1s min** | 1.5 mm |
| **e** | 0.41 |
| **Y2** | 1.46 |
| **Y0** | 0.8 |
| **Mass** | 0.6 kg |
| **ISO 355 reference** | T3CE050 |
| **Brand** | SNR |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 18.3 kN |
| **Rating life coefficient, A2** | 1 |
| **Static load, C0** | 125 kN |
| **Fatigue limit load, Cu** | 15.2 kN |
| **Nref** | 4,600 Tr/min |
| **Nlim** | 8,100 Tr/min |
| **Min operating temperature, Tmin** | -40 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.44 Hz |
| **Characteristic rolling element frequency, BSF** | 8 Hz |
| **Characteristic outer ring frequency, BPF0** | 9.69 Hz |
| **Characteristic inner ring frequency, BPFI** | 12.31 Hz |

## Abutment dimensions

| | |
|---|---|
| **da max** | 56 mm |
| **db min** | 58.5 mm |
| **Da min** | 74 mm |
| **Da max** | 76.5 mm |
| **Db min** | 82 mm |
| **Ca min** | 4 mm |
| **Cb min** | 6 mm |
| **ra max** | 1.5 mm |
| **r1a max** | 1.5 mm |

## Calculation factors

### Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

| $Fa / Fr \leq e$ | | $Fa / Fr > e$ | |
|---|---|---|---|
| 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