



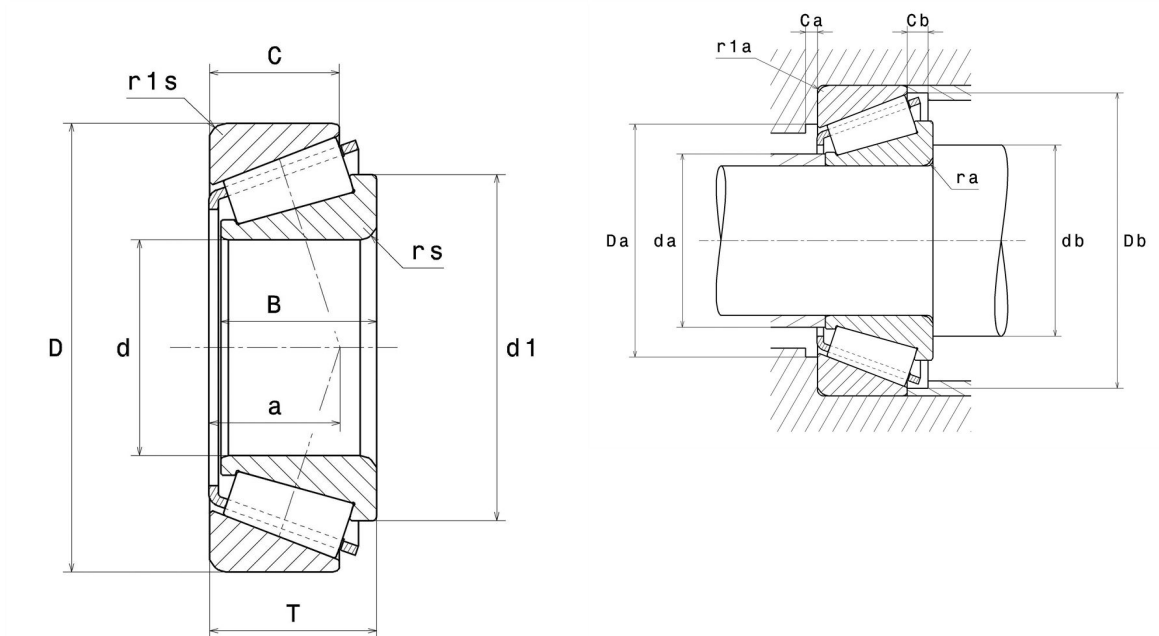
## Technical data

### 32312U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

## Visual(s)



## Product definition

|                          |         |
|--------------------------|---------|
| <b>d</b>                 | 60 mm   |
| <b>D</b>                 | 130 mm  |
| <b>B</b>                 | 46 mm   |
| <b>C</b>                 | 37 mm   |
| <b>T</b>                 | 48.5 mm |
| <b>d1</b>                | 93 mm   |
| <b>a</b>                 | 32 mm   |
| <b>rs min</b>            | 3 mm    |
| <b>r1s min</b>           | 2.5 mm  |
| <b>e</b>                 | 0.35    |
| <b>Y2</b>                | 1.74    |
| <b>Y0</b>                | 0.96    |
| <b>Mass</b>              | 3.02 kg |
| <b>ISO 355 reference</b> | T2FD060 |
| <b>Brand</b>             | NTN     |

## Product performance

|                                                      |              |
|------------------------------------------------------|--------------|
| <b>Dynamic load, C</b>                               | 244 kN       |
| <b>Rating life coefficient, A2</b>                   | 1            |
| <b>Static load, C0</b>                               | 315 kN       |
| <b>Fatigue limit load, Cu</b>                        | 38.4 kN      |
| <b>Nlim (oil)</b>                                    | 4,000 Tr/min |
| <b>Nlim (grease)</b>                                 | 3,000 Tr/min |
| <b>Min operating temperature, Tmin</b>               | -40 °C       |
| <b>Max operating temperature, Tmax</b>               | 120 °C       |
| <b>Characteristic cage frequency, FTF</b>            | 0.41 Hz      |
| <b>Characteristic rolling element frequency, BSF</b> | 5.27 Hz      |
| <b>Characteristic outer ring frequency, BPF0</b>     | 6.57 Hz      |
| <b>Characteristic inner ring frequency, BPFI</b>     | 9.43 Hz      |

## Abutment dimensions

|                |         |
|----------------|---------|
| <b>da max</b>  | 74 mm   |
| <b>db min</b>  | 74 mm   |
| <b>Da min</b>  | 107 mm  |
| <b>Da max</b>  | 118 mm  |
| <b>Db min</b>  | 120 mm  |
| <b>Ca min</b>  | 4 mm    |
| <b>Cb min</b>  | 11.5 mm |
| <b>ra max</b>  | 2.5 mm  |
| <b>r1a max</b> | 2 mm    |

## Calculation factors

### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| $F_a / F_r \leq e$ |   | $F_a / F_r > e$ |    |
|--------------------|---|-----------------|----|
| X                  | Y | X               | Y  |
| 1                  | 0 | 0.4             | Y2 |

### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

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

If  $P_0 < F_r$ , then use  $P_0 = F_r$

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