

## Technical data

### 4T-33207

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



#### VISUAL (S)



## PRODUCT DEFINITION

|                                          |          |
|------------------------------------------|----------|
| <b>Brand</b>                             | NTN      |
| <b>d - Internal diameter</b>             | 35 mm    |
| <b>D - External diameter</b>             | 72 mm    |
| <b>B - Bearing/Inner ring width</b>      | 28 mm    |
| <b>C - Outer ring width</b>              | 22 mm    |
| <b>T - Total width</b>                   | 28 mm    |
| <b>d1 - External diameter inner ring</b> | 53,5 mm  |
| <b>a - Charge load application point</b> | 18,5 mm  |
| <b>rs - Min fillet radius</b>            | 1,5 mm   |
| <b>r1s - Min fillet radius</b>           | 1,5 mm   |
| <b>Mass</b>                              | 0,539 kg |
| <b>ISO 355 reference</b>                 | T2DE035  |

## PRODUCT PERFORMANCE

|                                               |             |
|-----------------------------------------------|-------------|
| <b>C - Dynamic load</b>                       | 97 kN       |
| <b>C0 - Static load</b>                       | 109 kN      |
| <b>Cu - Fatigue limit load</b>                | 13,3 kN     |
| <b>A2 - Rating life coefficient</b>           | 1           |
| <b>e - Coefficient</b>                        | 0.35        |
| <b>Y0 - Static axial load coefficient</b>     | 0.93        |
| <b>Y2 - Upper axial load coefficient</b>      | 1.7         |
| <b>N lim - Oil lubrication limit speed</b>    | 7400 tr/min |
| <b>N lim - Grease lubrication limit speed</b> | 5500 tr/min |
| <b>Tmin - Min operating temperature</b>       | -40 °C      |



# 4T-33207

Single row tapered roller bearings

## PRODUCT PERFORMANCE

|                                         |        |
|-----------------------------------------|--------|
| <b>Tmax - Max operating temperature</b> | 120 °C |
|-----------------------------------------|--------|

## ABUTMENT

|                                          |         |
|------------------------------------------|---------|
| <b>da max - Max shoulder diameter IR</b> | 42 mm   |
| <b>db min - Min IR shoulder diameter</b> | 43,5 mm |
| <b>Da min - Min shoulder diameter OR</b> | 61 mm   |
| <b>Da max - Max shoulder diameter OR</b> | 63,5 mm |
| <b>Db min - Min OR shoulder diameter</b> | 68 mm   |
| <b>Ca - Min clearance</b>                | 5 mm    |
| <b>Cb - Min clearance</b>                | 6 mm    |
| <b>ra max - Max fillet radius</b>        | 1,5 mm  |
| <b>r1a - Max fillet radius</b>           | 1,5 mm  |

## OE EQUIVALENTS

| <b>Manufacturer</b> | <b>Part number</b> |
|---------------------|--------------------|
| <b>Scania</b>       | 1408172            |



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INDUSTRY CALCUL 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  $P_0 \leq F_r$ , then use  $P_0 = F_r$

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

