

## Technical data

### 4T-33113

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



#### VISUAL (S)



# 4T-33113

Single row tapered roller bearings

## PRODUCT DEFINITION

|                                          |         |
|------------------------------------------|---------|
| <b>Brand</b>                             | NTN     |
| <b>d - Internal diameter</b>             | 65 mm   |
| <b>D - External diameter</b>             | 110 mm  |
| <b>B - Bearing/Inner ring width</b>      | 34 mm   |
| <b>C - Outer ring width</b>              | 26,5 mm |
| <b>T - Total width</b>                   | 34 mm   |
| <b>d1 - External diameter inner ring</b> | 88,5 mm |
| <b>a - Charge load application point</b> | 26 mm   |
| <b>rs - Min fillet radius</b>            | 1,5 mm  |
| <b>r1s - Min fillet radius</b>           | 1,5 mm  |
| <b>Mass</b>                              | 1,27 kg |
| <b>ISO 355 reference</b>                 | T3DE065 |

## PRODUCT PERFORMANCE

|                                               |              |
|-----------------------------------------------|--------------|
| <b>C - Dynamic load</b>                       | 160000000 mN |
| <b>C0 - Static load</b>                       | 211000000 mN |
| <b>Cu - Fatigue limit load</b>                | 25700000 mN  |
| <b>A2 - Rating life coefficient</b>           | 1            |
| <b>e - Coefficient</b>                        | 0.39         |
| <b>Y0 - Static axial load coefficient</b>     | 0.85         |
| <b>Y2 - Upper axial load coefficient</b>      | 1.55         |
| <b>N lim - Oil lubrication limit speed</b>    | 26400 °/s    |
| <b>N lim - Grease lubrication limit speed</b> | 19800 °/s    |
| <b>Tmin - Min operating temperature</b>       | 233,15 °K    |



**NTN Europe**

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072  
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

# 4T-33113

Single row tapered roller bearings

## PRODUCT PERFORMANCE

|                                         |           |
|-----------------------------------------|-----------|
| <b>Tmax - Max operating temperature</b> | 393,15 °K |
|-----------------------------------------|-----------|

## ABUTMENT

|                                          |          |
|------------------------------------------|----------|
| <b>da max - Max shoulder diameter IR</b> | 73 mm    |
| <b>db min - Min IR shoulder diameter</b> | 73,5 mm  |
| <b>Da min - Min shoulder diameter OR</b> | 96 mm    |
| <b>Da max - Max shoulder diameter OR</b> | 101,5 mm |
| <b>Db min - Min OR shoulder diameter</b> | 106 mm   |
| <b>Ca - Min clearance</b>                | 6 mm     |
| <b>Cb - Min clearance</b>                | 7,5 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>Iveco</b>        | 4690299                                                       |
| <b>MAN</b>          | 06.32499-0039   06.32499-0073   06.32499-0108   06.32499.0116 |
| <b>Mercedes</b>     | 003 981 4105                                                  |
| <b>SAF</b>          | 4200005500                                                    |

## AUTOMOTIVE COMPATIBILITY

| <b>Brand</b> | <b>Model</b> | <b>Generation</b> | <b>Date</b>        | <b>Location</b> | <b>Position</b> |
|--------------|--------------|-------------------|--------------------|-----------------|-----------------|
| <b>Iveco</b> | MK           | MK                | 01/1983 => 05/1989 |                 | Rear            |
| <b>Iveco</b> | P/PA         | P/PA              | 04/1987 => 12/1992 |                 | Rear            |
| <b>Iveco</b> | ZETA         | ZETA              | 11/1979 => 12/1992 |                 | Rear            |



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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

