

## Technical data

### 30214U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



## VISUAL (S)



| PRODUCT DEFINITION                |          |
|-----------------------------------|----------|
| Brand                             | NTN      |
| d - Internal diameter             | 70 mm    |
| D - External diameter             | 125 mm   |
| B - Bearing/Inner ring width      | 24 mm    |
| C - Outer ring width              | 21 mm    |
| T - Total width                   | 26,25 mm |
| d1 - External diameter inner ring | 95 mm    |
| a - Charge load application point | 25,5 mm  |
| rs - Min fillet radius            | 2 mm     |
| r1s - Min fillet radius           | 1,5 mm   |
| Mass                              | 1,26 kg  |
| ISO 355 reference                 | T3EB070  |

| PRODUCT PERFORMANCE                    |              |
|----------------------------------------|--------------|
| C - Dynamic load                       | 131000000 mN |
| C0 - Static load                       | 162000000 mN |
| Cu - Fatigue limit load                | 19800000 mN  |
| A2 - Rating life coefficient           | 1            |
| e - Coefficient                        | 0.42         |
| Y0 - Static axial load coefficient     | 0.79         |
| Y2 - Upper axial load coefficient      | 1.43         |
| N lim - Oil lubrication limit speed    | 23400 °/s    |
| N lim - Grease lubrication limit speed | 17400 °/s    |
| Tmin - Min operating temperature       | 233,15 °K    |



## PRODUCT PERFORMANCE

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

## ABUTMENT

|                                          |          |
|------------------------------------------|----------|
| <b>da max - Max shoulder diameter IR</b> | 81 mm    |
| <b>db min - Min IR shoulder diameter</b> | 80 mm    |
| <b>Da min - Min shoulder diameter OR</b> | 110 mm   |
| <b>Da max - Max shoulder diameter OR</b> | 116,5 mm |
| <b>Db min - Min OR shoulder diameter</b> | 118 mm   |
| <b>Ca - Min clearance</b>                | 4 mm     |
| <b>Cb - Min clearance</b>                | 5 mm     |
| <b>ra max - Max fillet radius</b>        | 2 mm     |
| <b>r1a - Max fillet radius</b>           | 1,5 mm   |



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

