

## Technical data

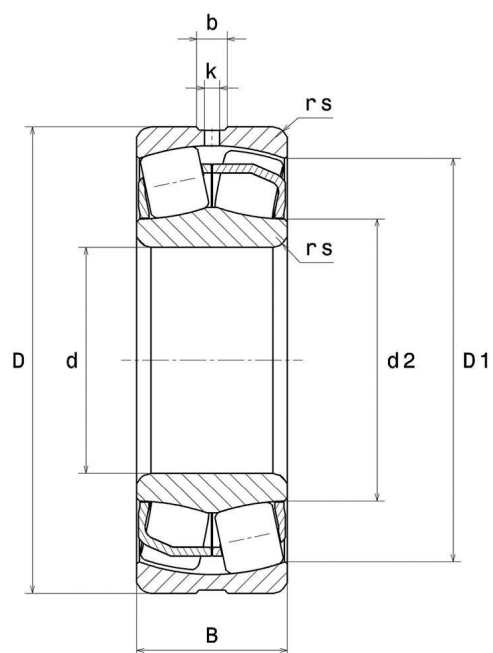
23134EAW33

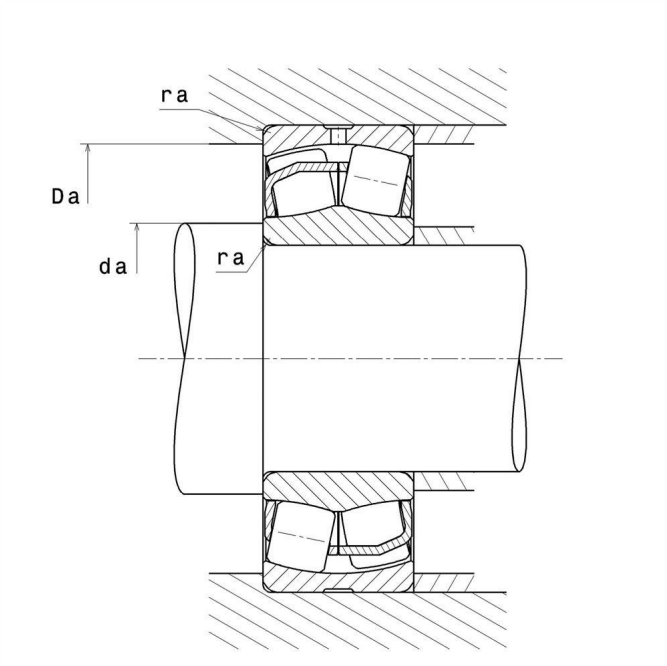
Spherical roller bearings



**ULTAGE®**

### VISUAL (S)





PRODUCT DEFINITION

|                                   |          |
|-----------------------------------|----------|
| Brand                             | NTN      |
| d - Internal diameter             | 170 mm   |
| D - External diameter             | 280 mm   |
| B - Bearing/Inner ring width      | 88 mm    |
| d2 - External diameter inner ring | 196,2 mm |
| D1 - Inner diameter outer ring    | 249,7 mm |
| rs - Min fillet radius            | 2,1 mm   |
| Number of lubrication holes       | 3        |
| b - Groove width                  | 13,7 mm  |
| k - Hole diameter                 | 6 mm     |
| Radial clearance class            | CN       |
| Mass                              | 21,55 kg |

PRODUCT PERFORMANCE



## PRODUCT PERFORMANCE

|                                           |               |
|-------------------------------------------|---------------|
| <b>C - Dynamic load</b>                   | 1270000000 mN |
| <b>C0 - Static load</b>                   | 1700000000 mN |
| <b>Cu - Fatigue limit load</b>            | 162000000 mN  |
| <b>e - Coefficient</b>                    | 0.28          |
| <b>Y0 - Static axial load coefficient</b> | 2.34          |
| <b>Y1 - Lower axial load coefficient</b>  | 2.39          |
| <b>Y2 - Upper axial load coefficient</b>  | 3.56          |
| <b>N ref - Reference thermal speed</b>    | 10200 °/s     |
| <b>N lim - Mechanical Limit Speed</b>     | 13800 °/s     |
| <b>Tmin - Min operating temperature</b>   | 233,15 °K     |
| <b>Tmax - Max operating temperature</b>   | 473,15 °K     |

## ABUTMENT

|                                                       |        |
|-------------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>              | 182 mm |
| <b>Da max - Max shoulder diameter OR</b>              | 268 mm |
| <b>ra max - Max shaft &amp; housing fillet radius</b> | 2 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                  | Y1 | 0.67            | Y2 |

### Equivalent static radial load

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

| $X_0$ | $Y_0$ |
|-------|-------|
| 1     | Y0    |

The values for e, Y1, Y2 and Y0 are shown in the above table .



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