



Brand of **NTN** corporation

## Technical data

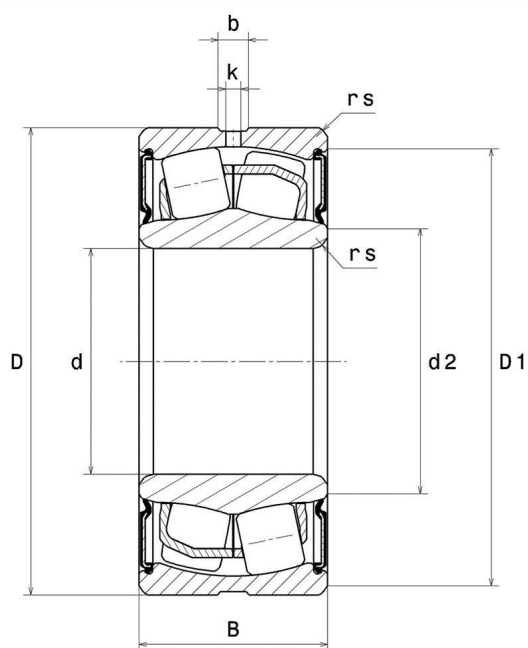
**10X22206EAW33EE**

Spherical roller bearings



**ULTAGE**

### VISUAL (S)

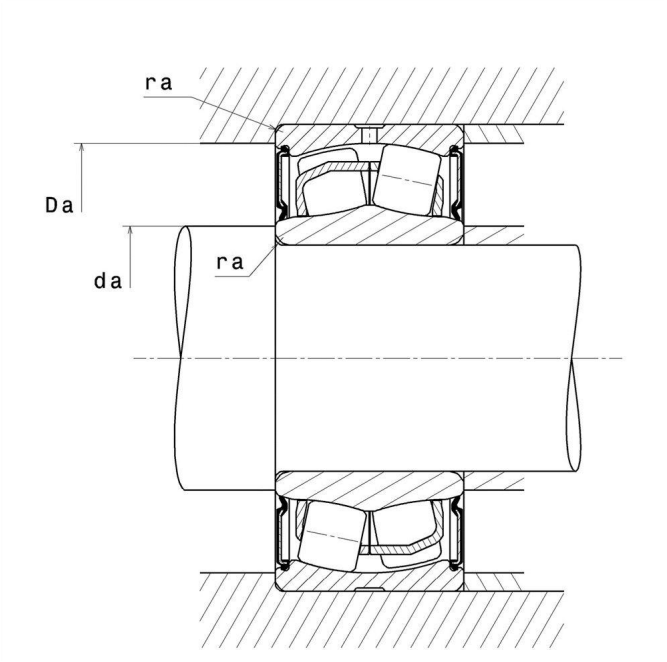


#### NTN Europe

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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

10X22206EAW33EE

Spherical roller bearings



PRODUCT DEFINITION

|                                   |         |
|-----------------------------------|---------|
| Brand                             | SNR     |
| d - Internal diameter             | 30 mm   |
| D - External diameter             | 62 mm   |
| B - Bearing/Inner ring width      | 25 mm   |
| d2 - External diameter inner ring | 35,2 mm |
| D1 - Inner diameter outer ring    | 56,4 mm |
| rs - Min fillet radius            | 1 mm    |
| Number of lubrication holes       | 3       |
| b - Groove width                  | 4,39 mm |
| k - Hole diameter                 | 2 mm    |
| Radial clearance class            | CN      |
| Mass                              | 0,33 kg |

PRODUCT PERFORMANCE



## PRODUCT PERFORMANCE

|                                           |             |
|-------------------------------------------|-------------|
| <b>C - Dynamic load</b>                   | 75,7 kN     |
| <b>C0 - Static load</b>                   | 64,5 kN     |
| <b>Cu - Fatigue limit load</b>            | 7,9 kN      |
| <b>e - Coefficient</b>                    | 0.31        |
| <b>Y0 - Static axial load coefficient</b> | 2.1         |
| <b>Y1 - Lower axial load coefficient</b>  | 2.15        |
| <b>Y2 - Upper axial load coefficient</b>  | 3.2         |
| <b>N lim - Mechanical Limit Speed</b>     | 3100 tr/min |
| <b>Tmin - Min operating temperature</b>   | -20 °C      |
| <b>Tmax - Max operating temperature</b>   | 120 °C      |

## BEARING FREQUENCIES

|                                                                 |          |
|-----------------------------------------------------------------|----------|
| <b>BPFO - Over rolling frequency on outer ring (60 rpm)</b>     | 6.149 Hz |
| <b>BPFI - Over rolling frequency on inner (60 rpm)</b>          | 8.851 Hz |
| <b>BSF - Over rolling frequency on rolling element (60 rpm)</b> | 5.257 Hz |
| <b>BRF - Rotational frequency - rolling element (60 rpm)</b>    | 2.629 Hz |
| <b>FTF - Rotational frequency - cage (60 rpm)</b>               | 0.41 Hz  |

## ABUTMENT

|                                                       |         |
|-------------------------------------------------------|---------|
| <b>da max - Max shoulder diameter IR</b>              | 35,2 mm |
| <b>da min - Min shoulder diameter IR</b>              | 35,2 mm |
| <b>db - Min diameter for Sleeve</b>                   | 0 mm    |
| <b>Da max - Max shoulder diameter OR</b>              | 56,4 mm |
| <b>ra max - Max shaft &amp; housing fillet radius</b> | 1 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 .

